

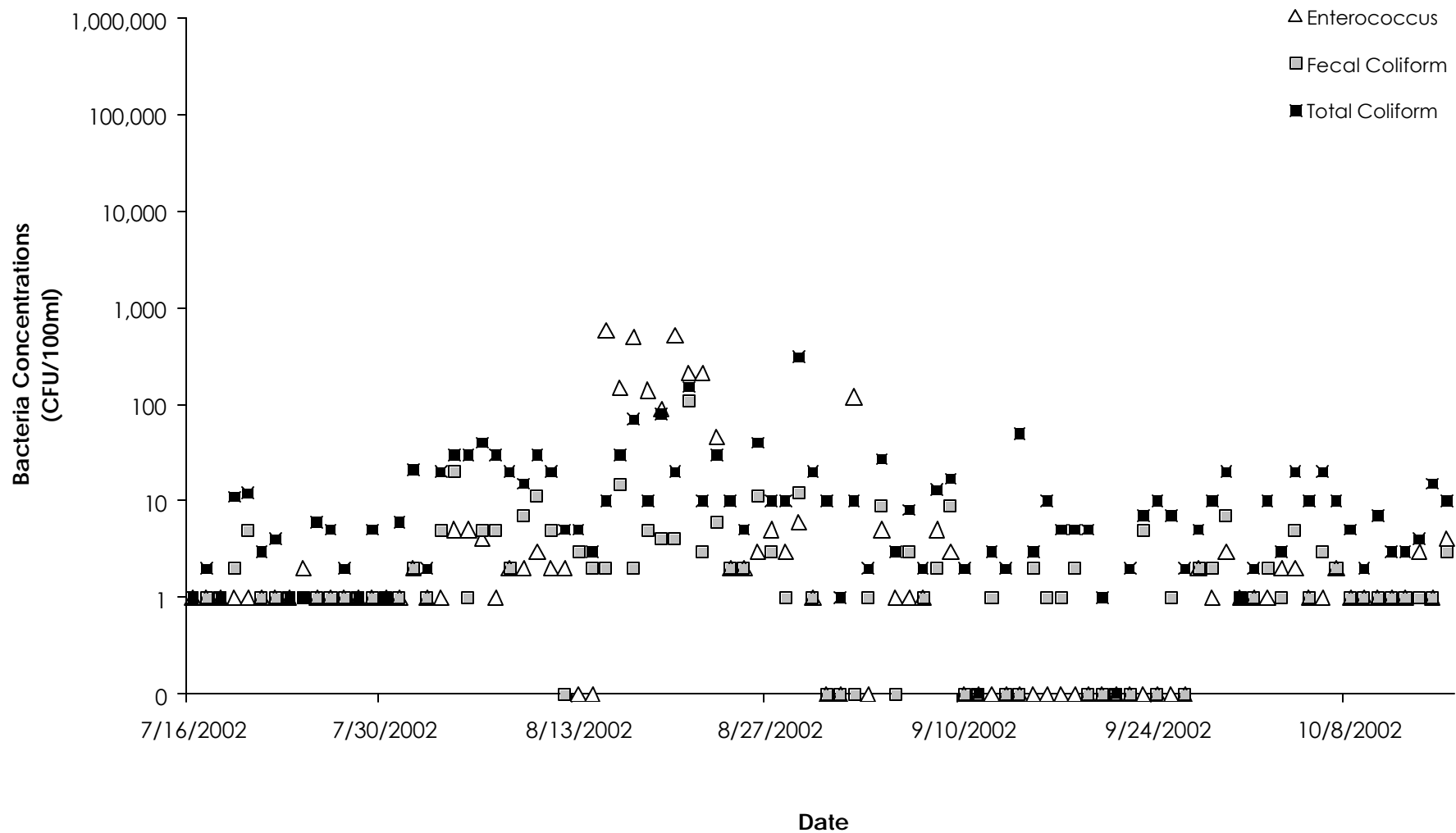
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FIGURES

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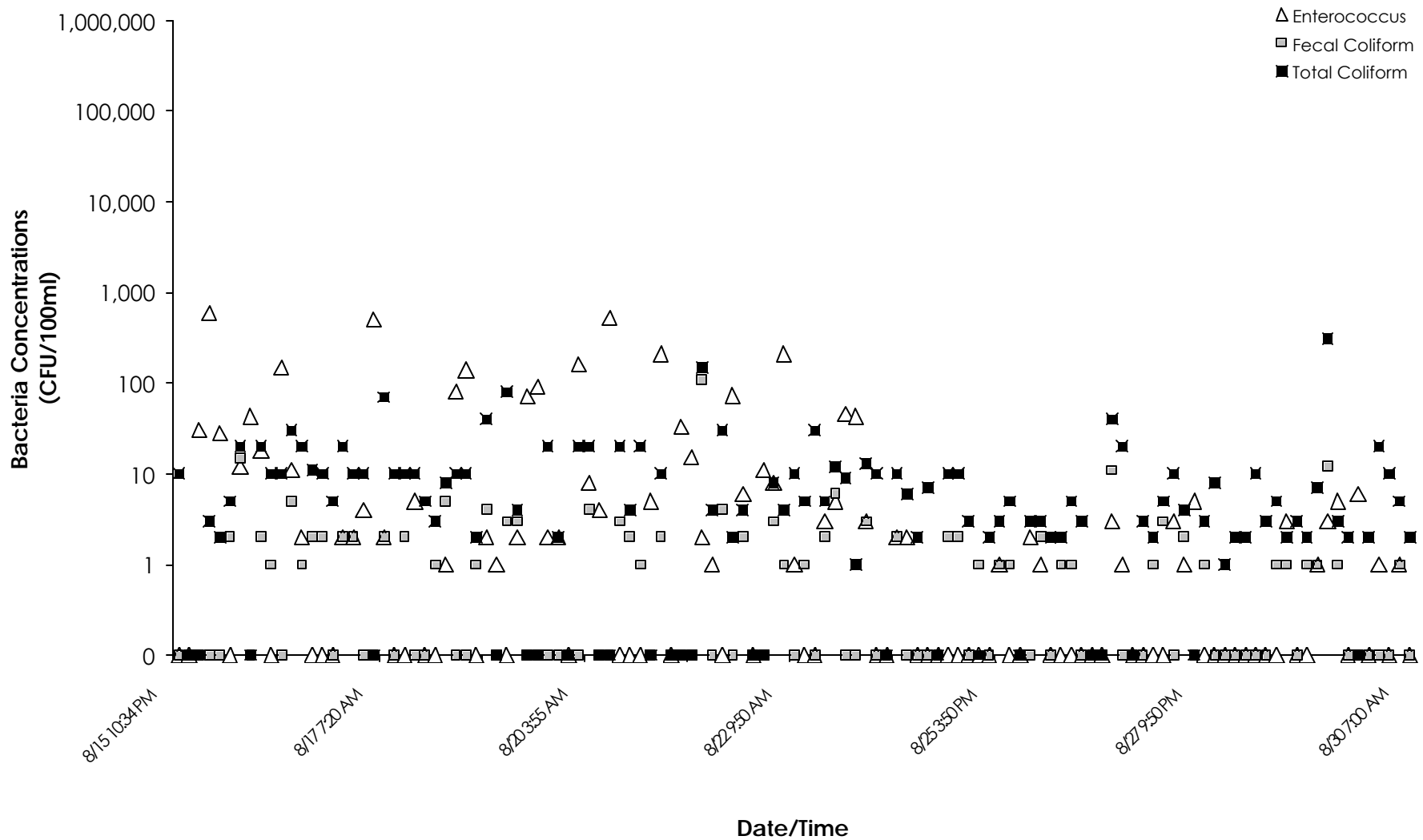
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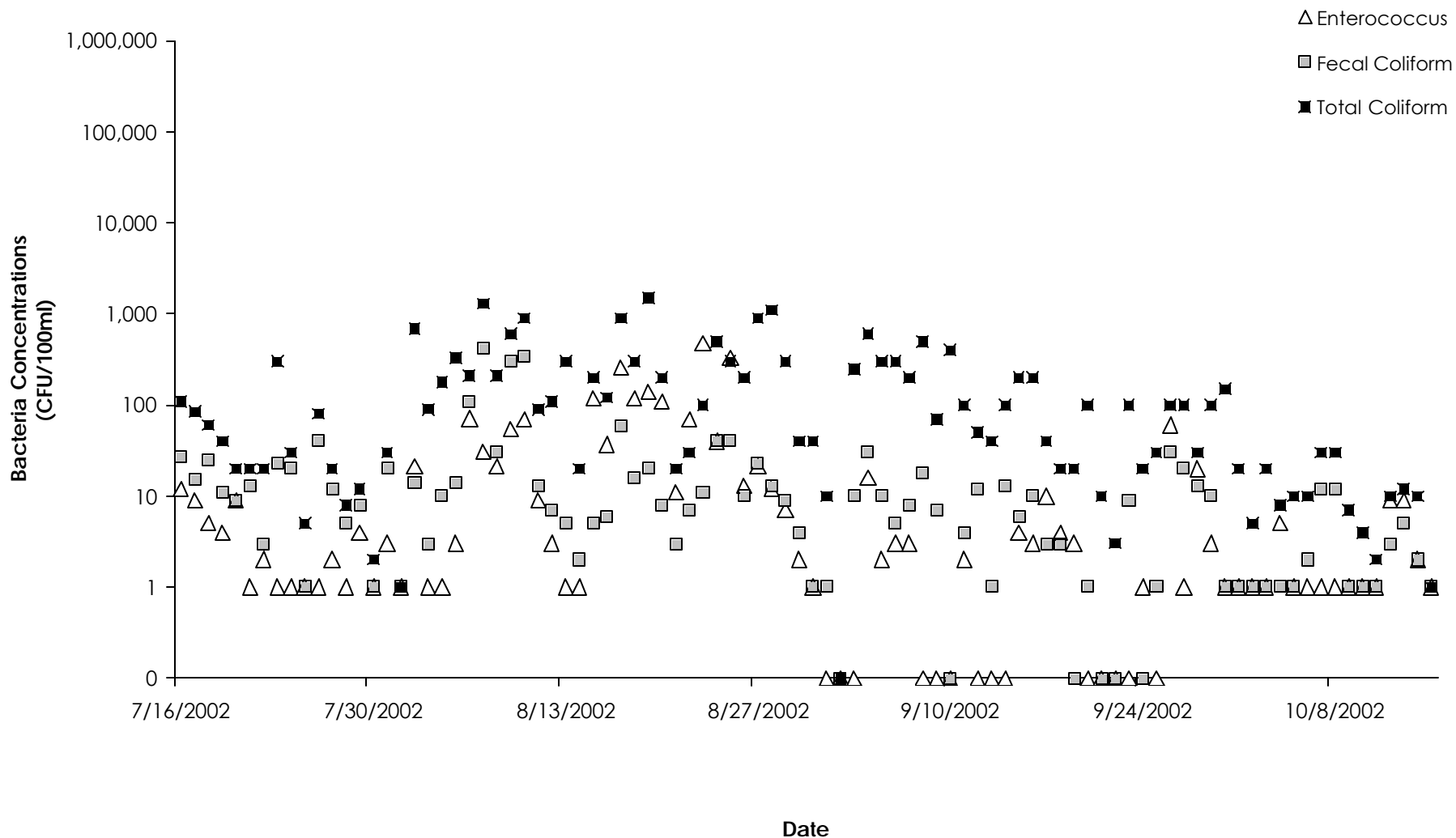
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Client: California Energy Commission		Date: April 2003
Project/Site: HBGS - AES Powerplant		Project No: 225-001
Title: Intake Vault Bacteria Concentrations Daily Sampling		Plate No: 4-1a



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Client:	California Energy Commission		Date:	April 2003
	Project/Site:		Project No:	225-001
	Title:		Plate No:	4-1b
		Intake Vault Bacteria Concentrations Intensive Sampling		



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Client:

California Energy Commission

Project/Site:

HBGS - AES Powerplant

Title:

Discharge Vault-zero Feet Bacteria Concentrations Daily Sampling

Date:

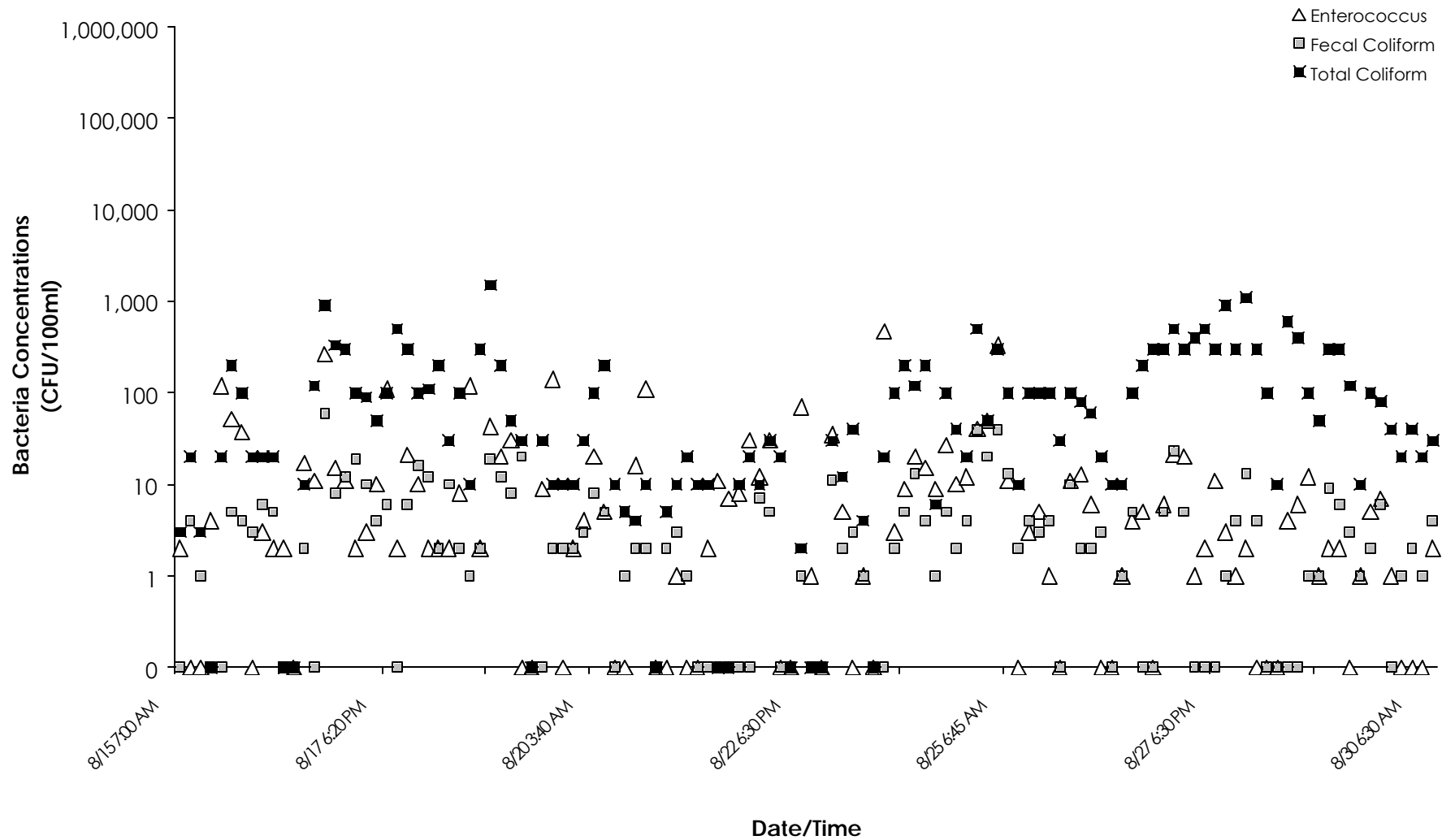
April 2003

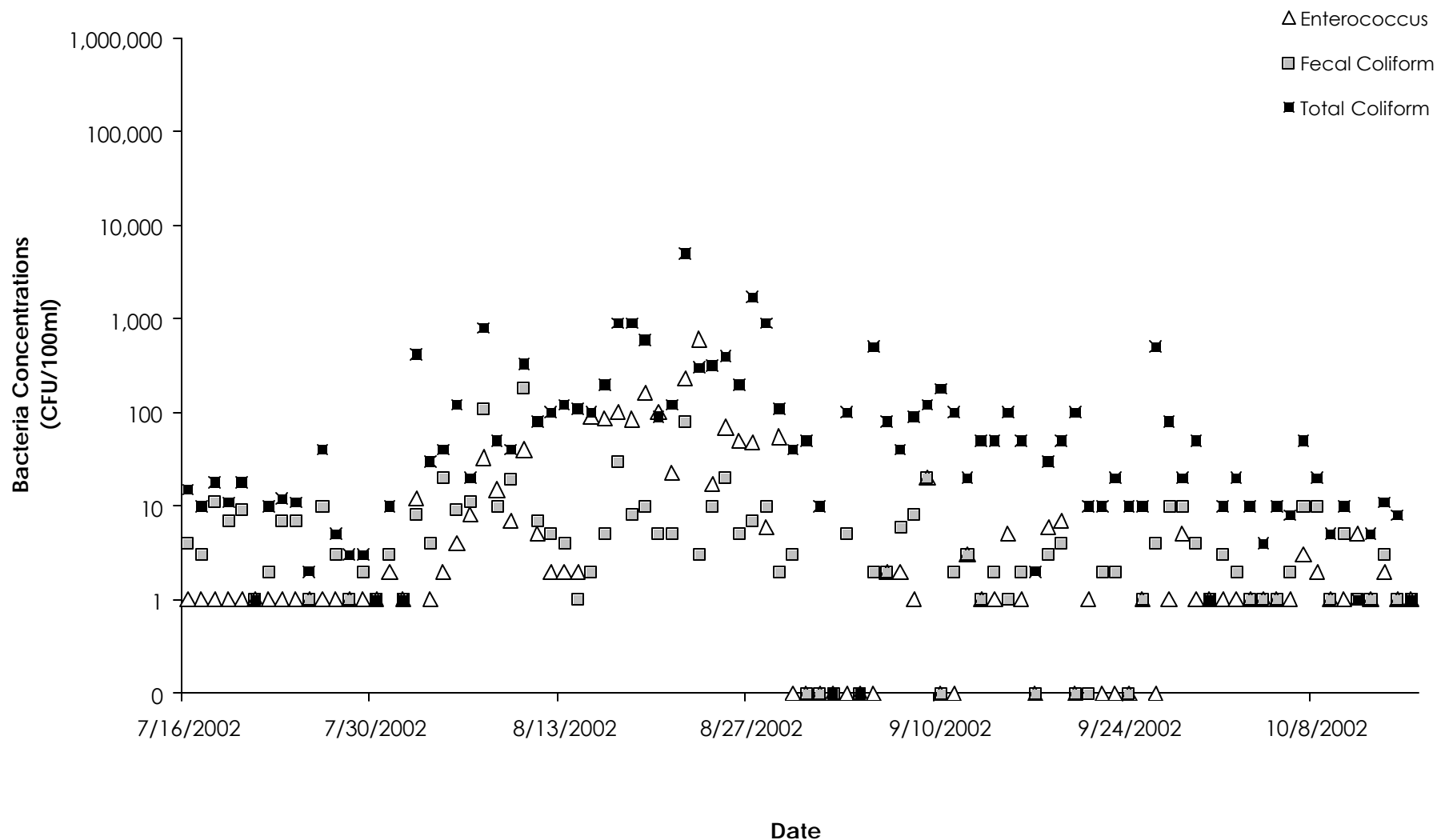
Project No:

225-001

Plate No:

4-2a





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Client:

California Energy Commission

Project/Site:

HBGS - AES Powerplant

Title:

Discharge Vault-ten Feet Bacteria Concentrations Daily Sampling

Date:

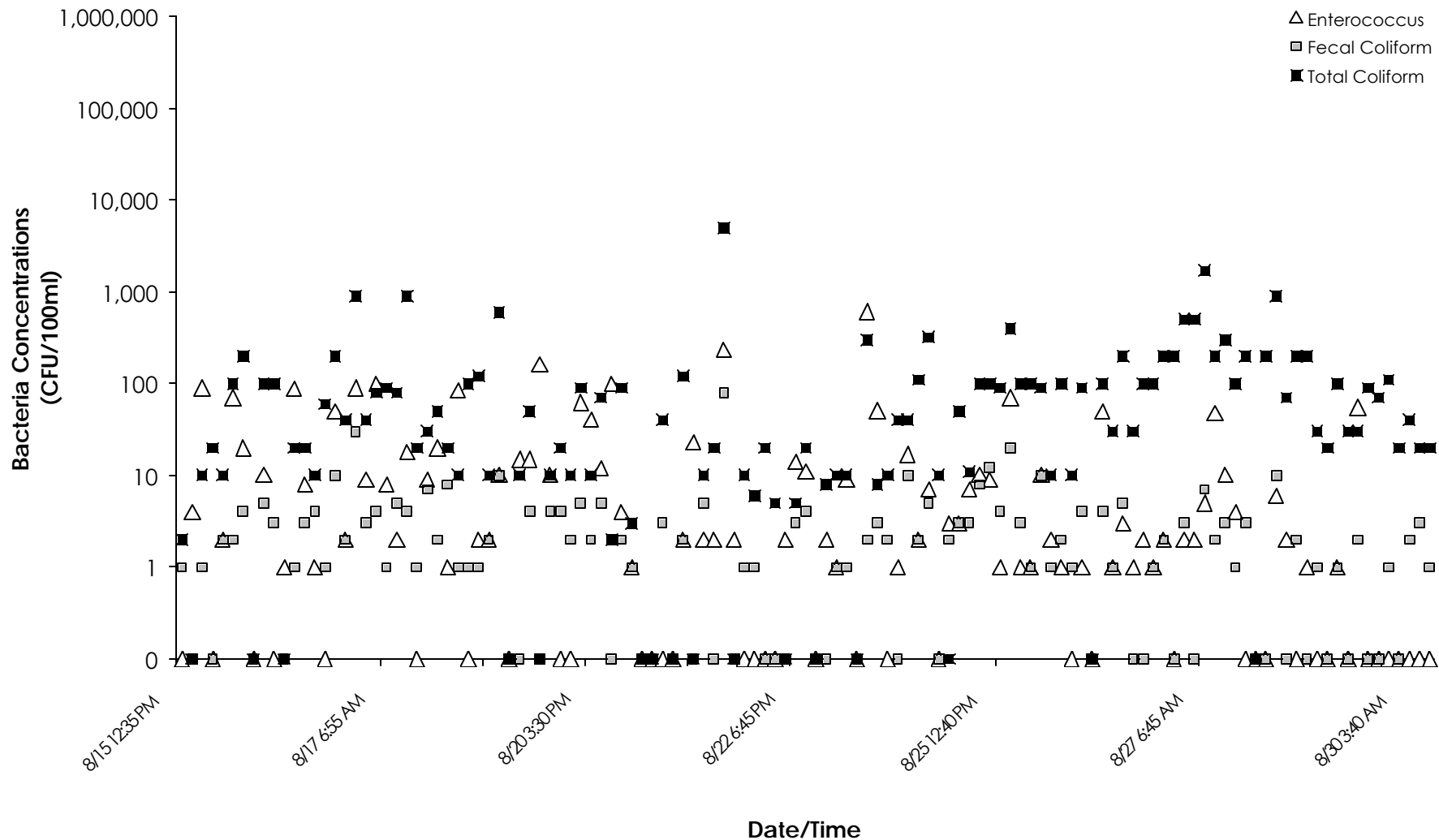
April 2003

Project No:

225-001

Plate No:

4-3a



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Client:

California Energy Commission

Project/Site:

HBGS - AES Powerplant

Title:

Discharge Vault-ten Feet Bacteria Concentrations Intensive Sampling

Date:

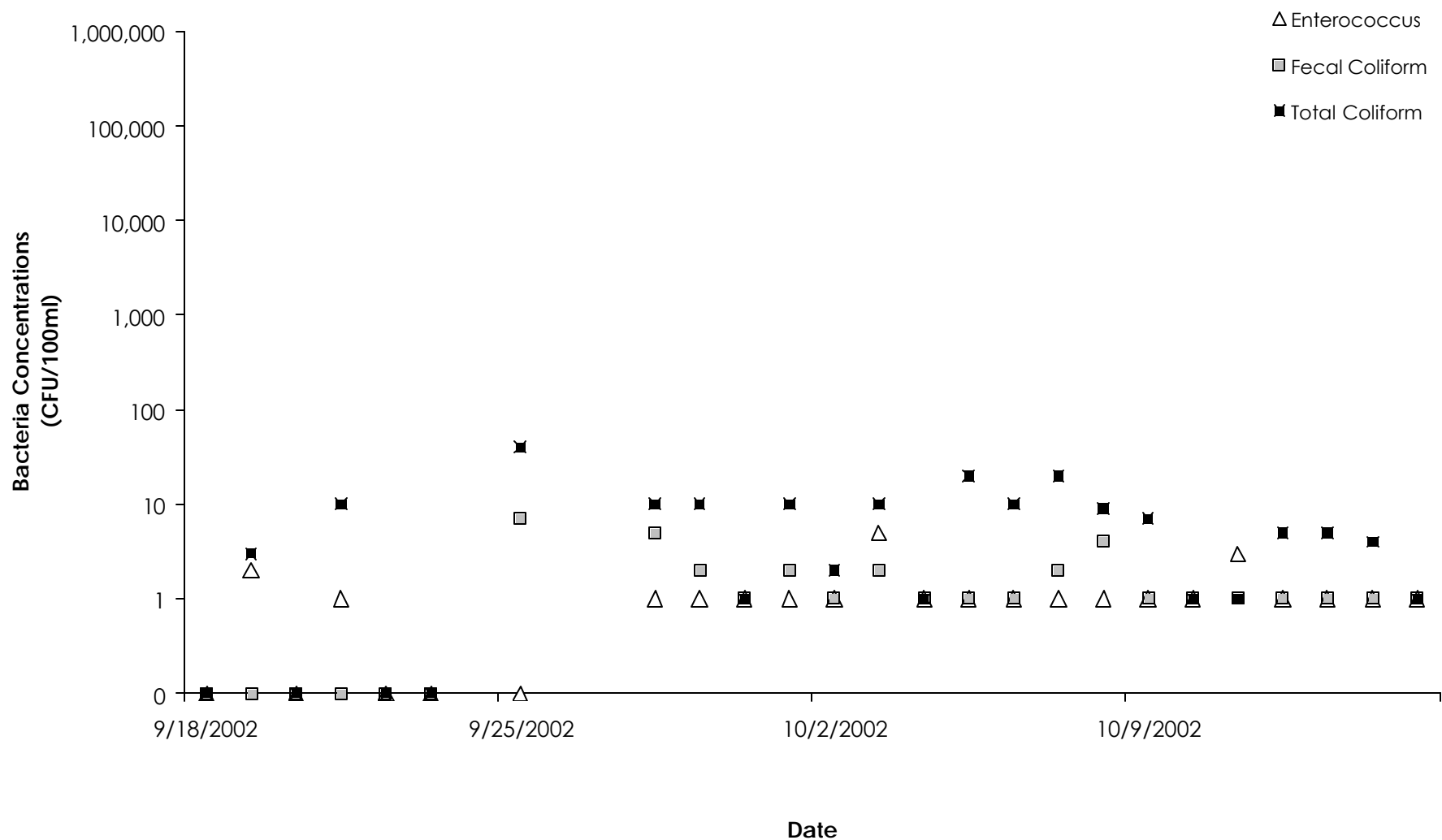
April 2003

Project No:

225-001

Plate No:

4-3b



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Client: California Energy Commission

Project/Site: HBGS - AES Powerplant

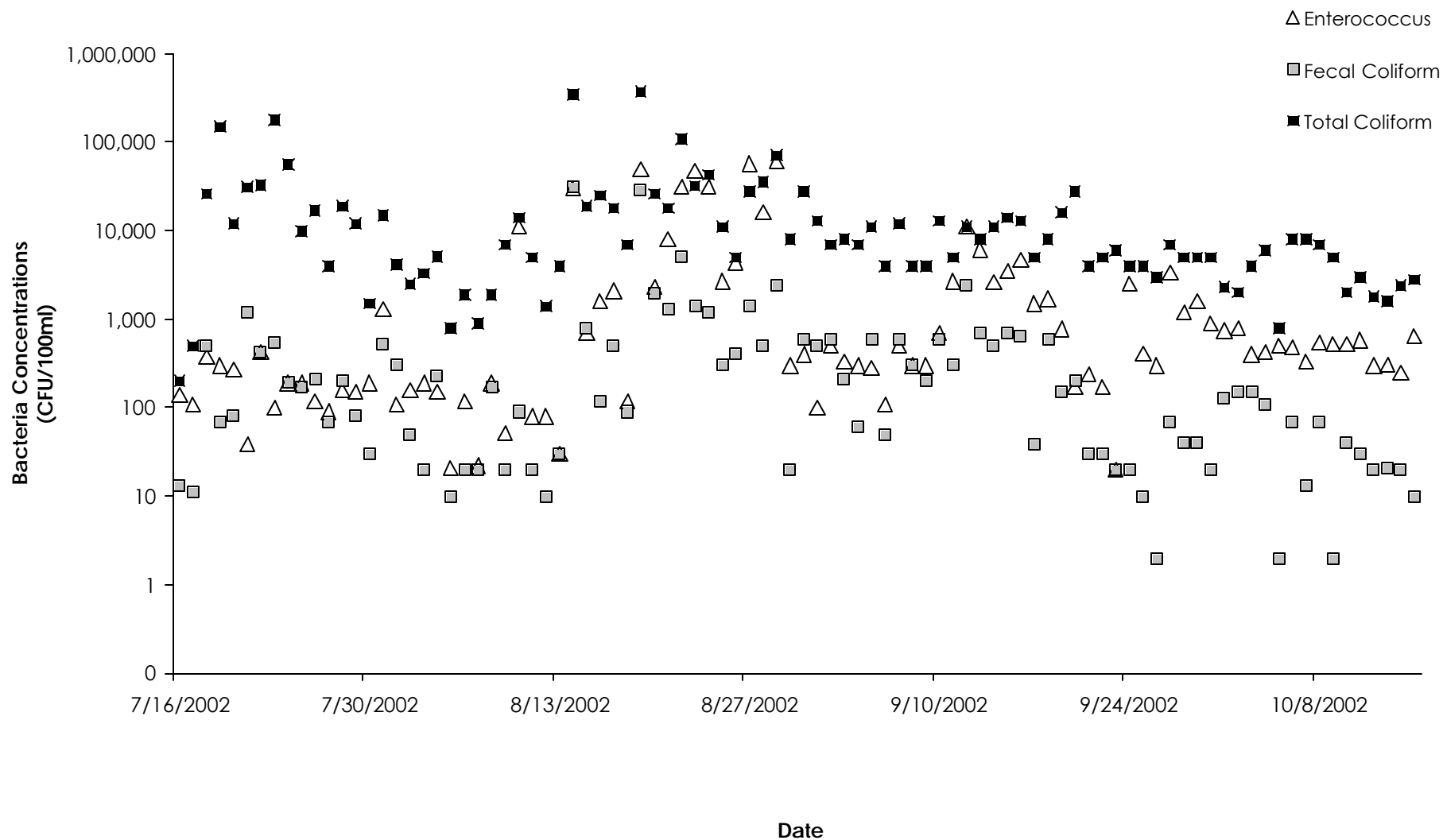
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Date: April 2003

Project No: 225-001

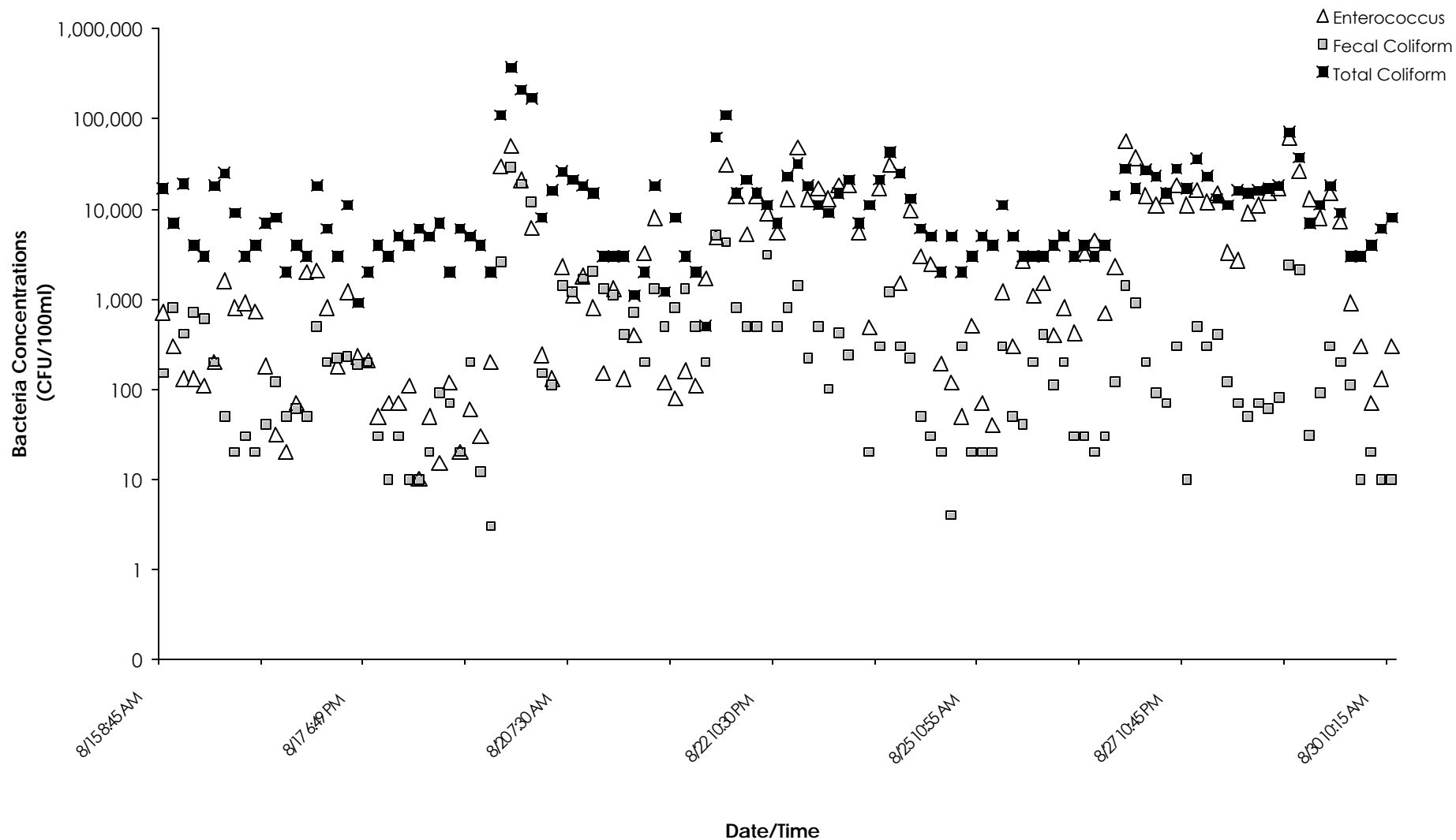
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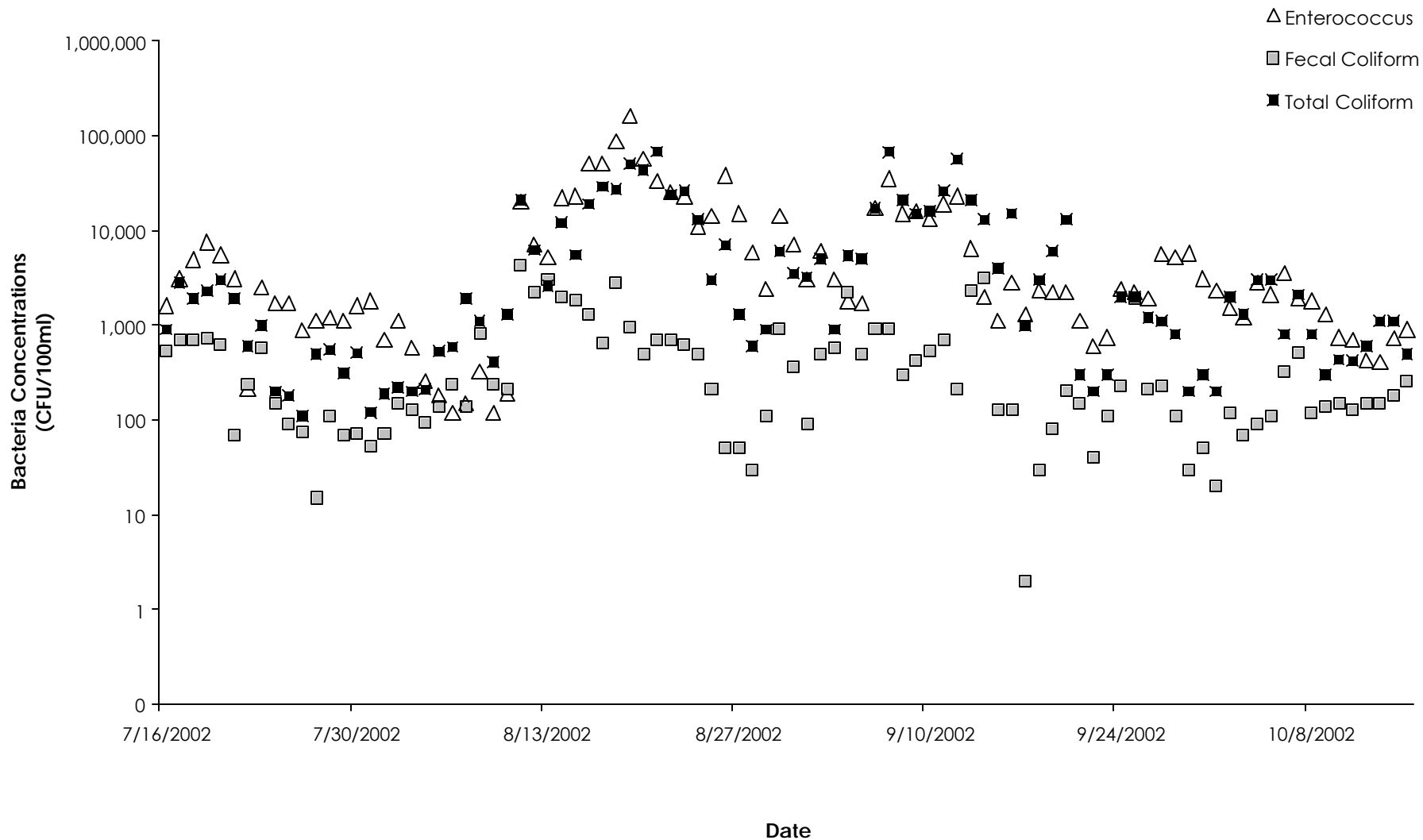
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Client:	California Energy Commission	Date:	April 2003
Project/Site:	HBGS - AES Powerplant	Project No:	225-001
Title:	Blackford's DitchBacteria Concentrations Daily Sampling	Plate No:	4-5a



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Client:	California Energy Commission	Date:	April 2003
Project/Site:	HBGS - AES Powerplant	Project No:	225-001
Title:	Blackford's Ditch Bacteria Concentrations Intensive Sampling		4-5b



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Client:

California Energy Commission

Project/Site:

HBGS - AES Powerplant

Title:

Boiler Fireside Wash Bacteria Concentrations Daily Sampling

Date:

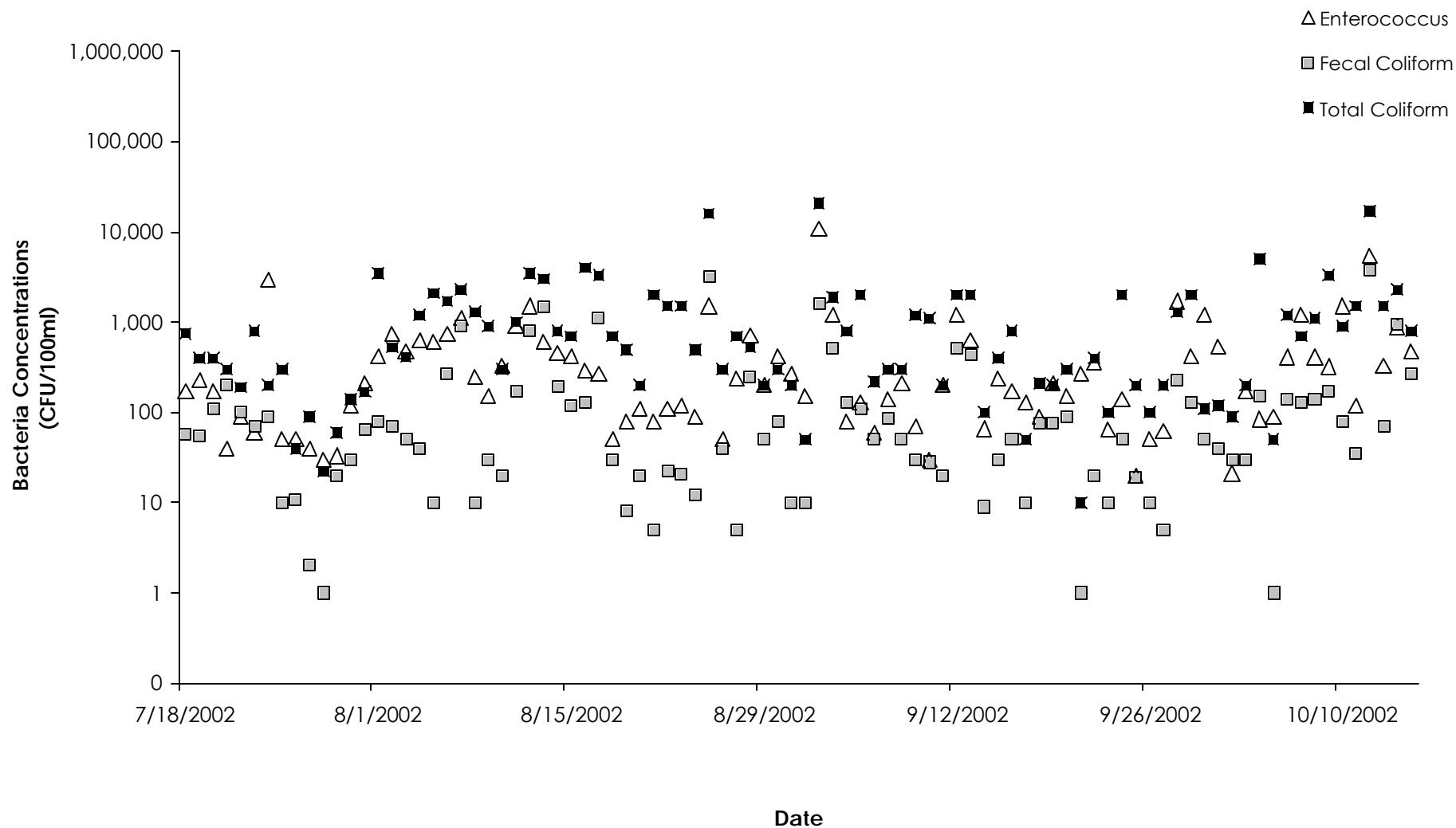
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Project No:

225-001

Plate No:

4-6



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Client:

California Energy Commission

Project/Site:

HBGS - AES Powerplant

Title:

Boiler Sump Wash Bacteria Concentrations Daily Sampling

Date:

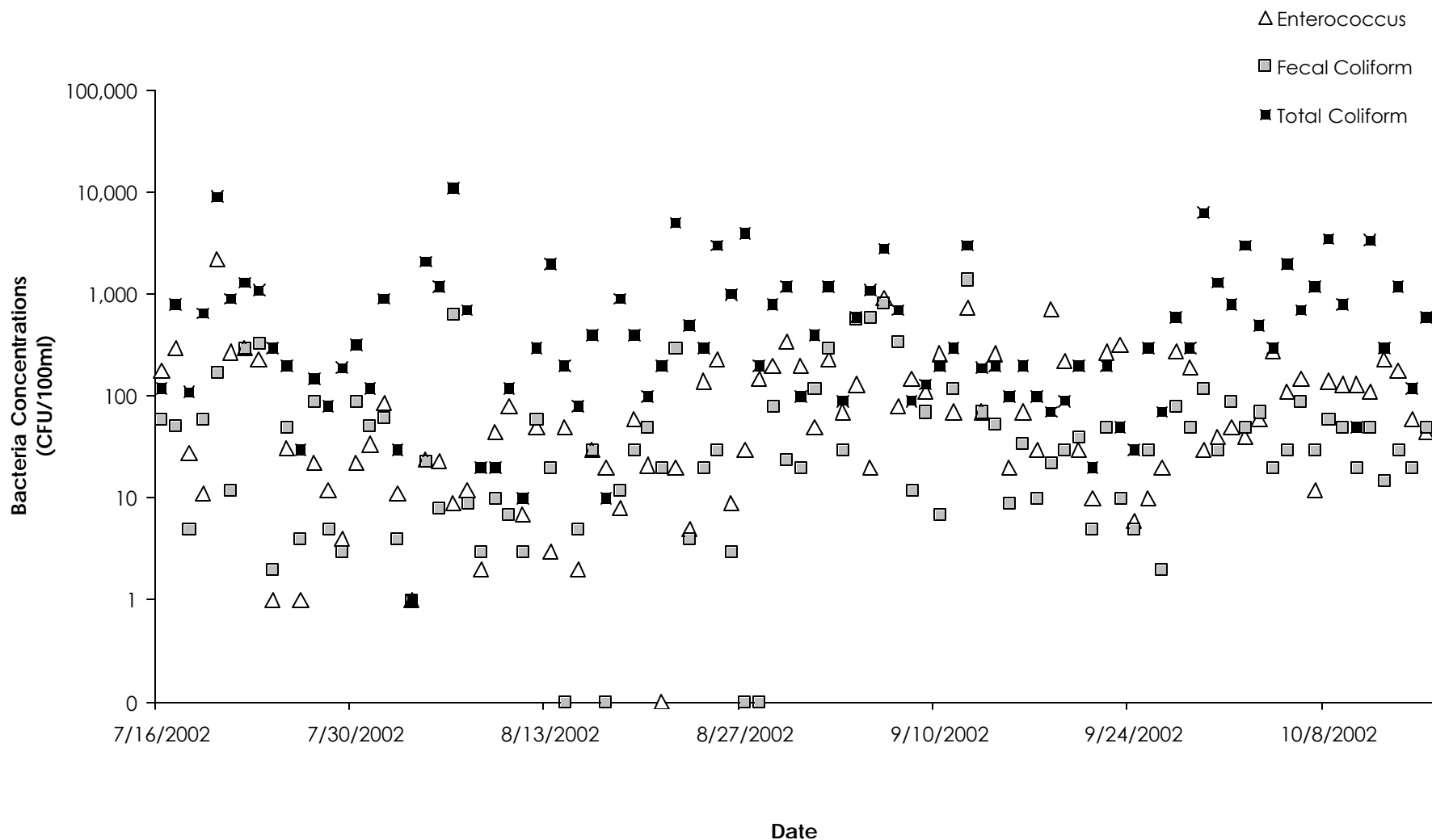
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Project No:

225-001

Plate No:

4-7



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Client:

California Energy Commission

Project/Site:

HBGS - AES Powerplant

Title:

Storm Water Sump Bateria Concentrations Daily Sampling

Date:

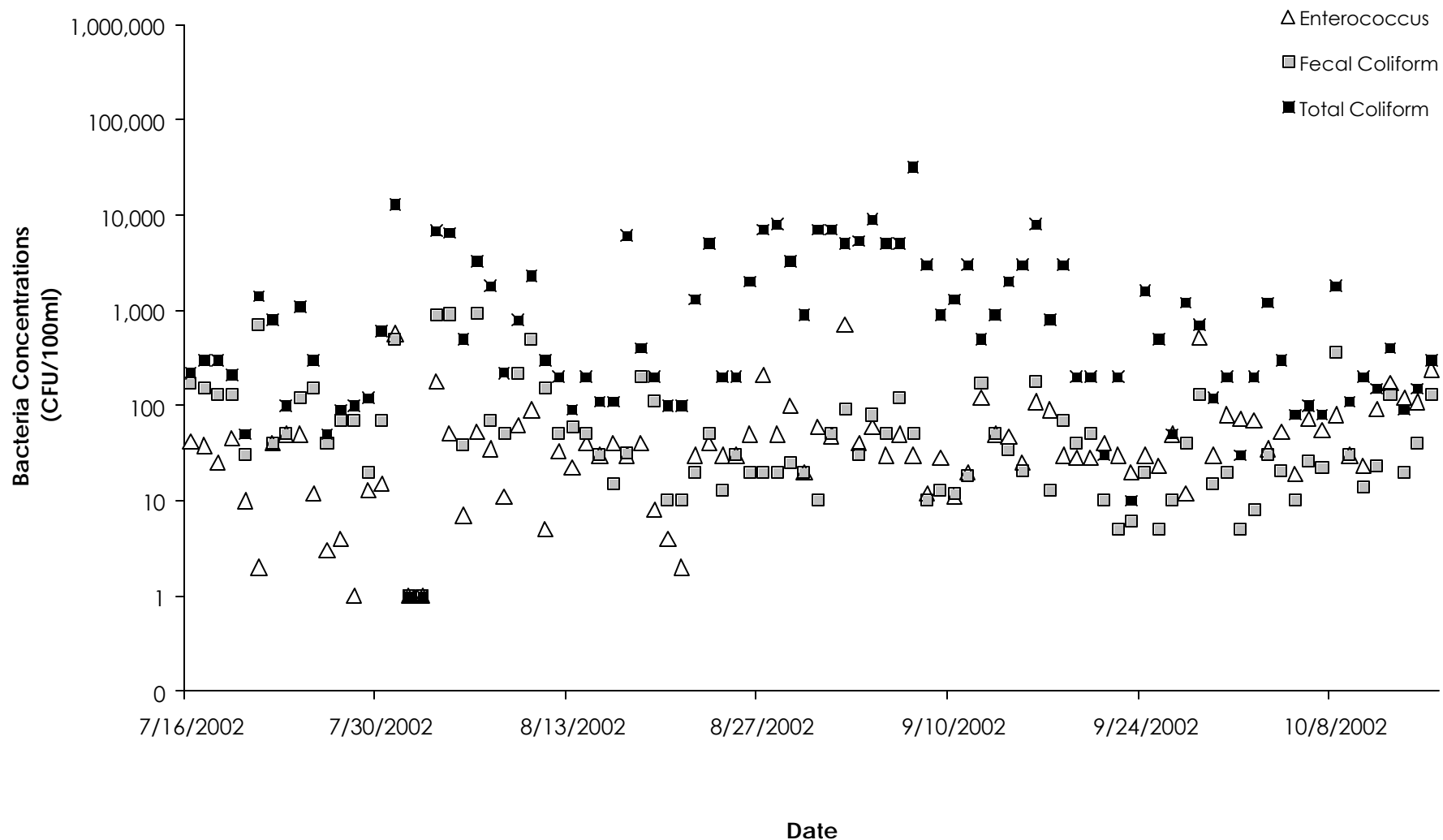
April 2003

Project No:

225-001

Plate No:

4-8



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Client:

California Energy Commission

Project/Site:

HBGS - AES Powerplant

Title:

General Purpose Retention Basin Bacteria Concentrations Daily Sampling

Date:

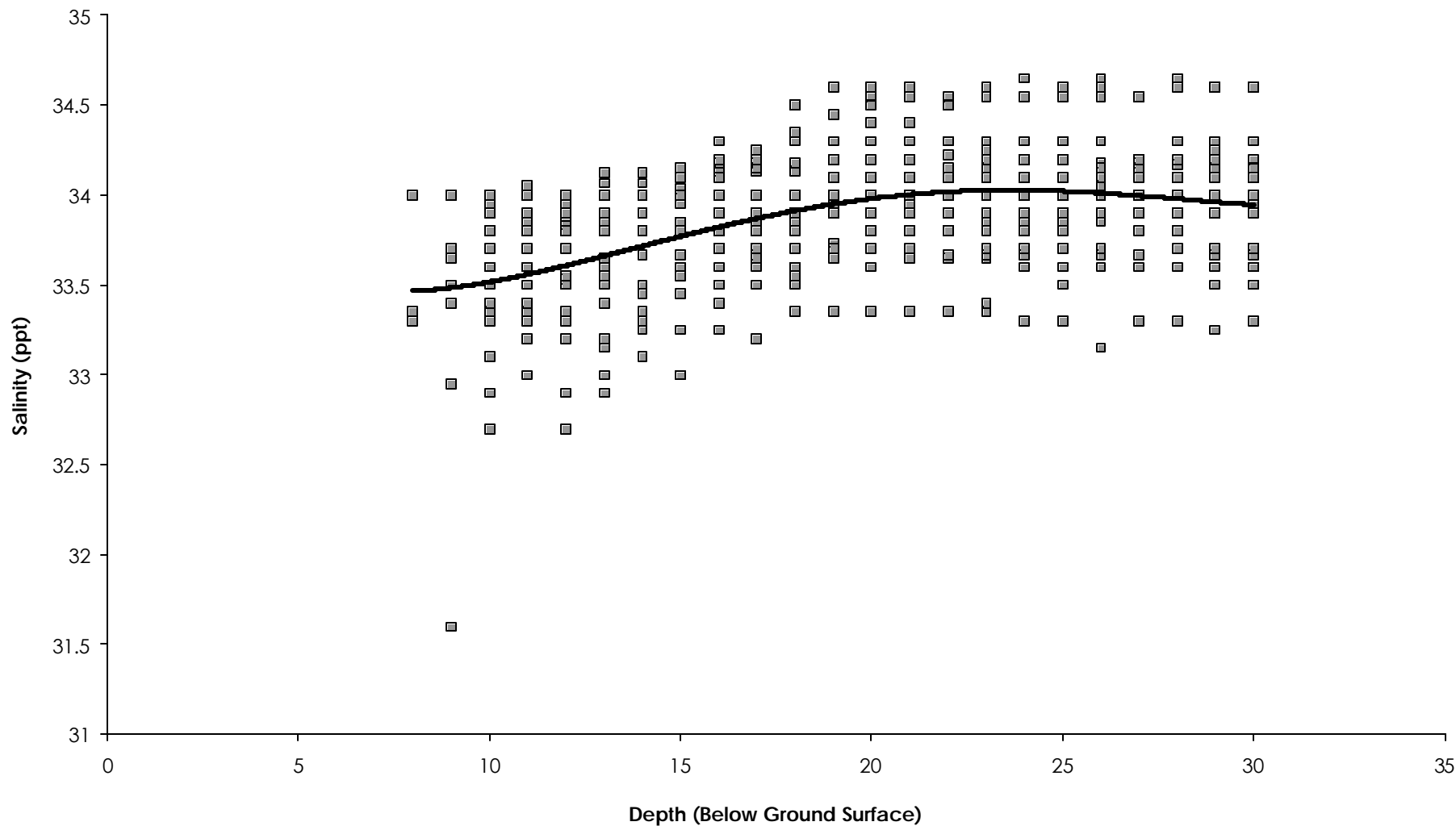
April 2003

Project No:

225-001

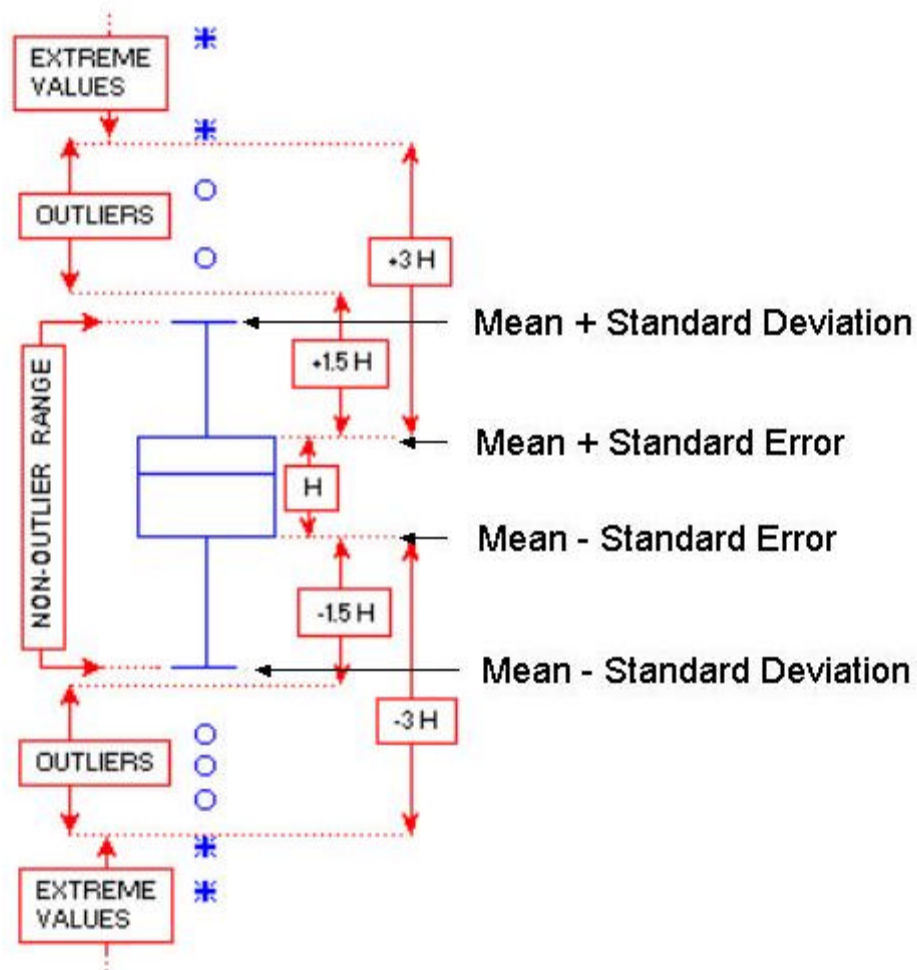
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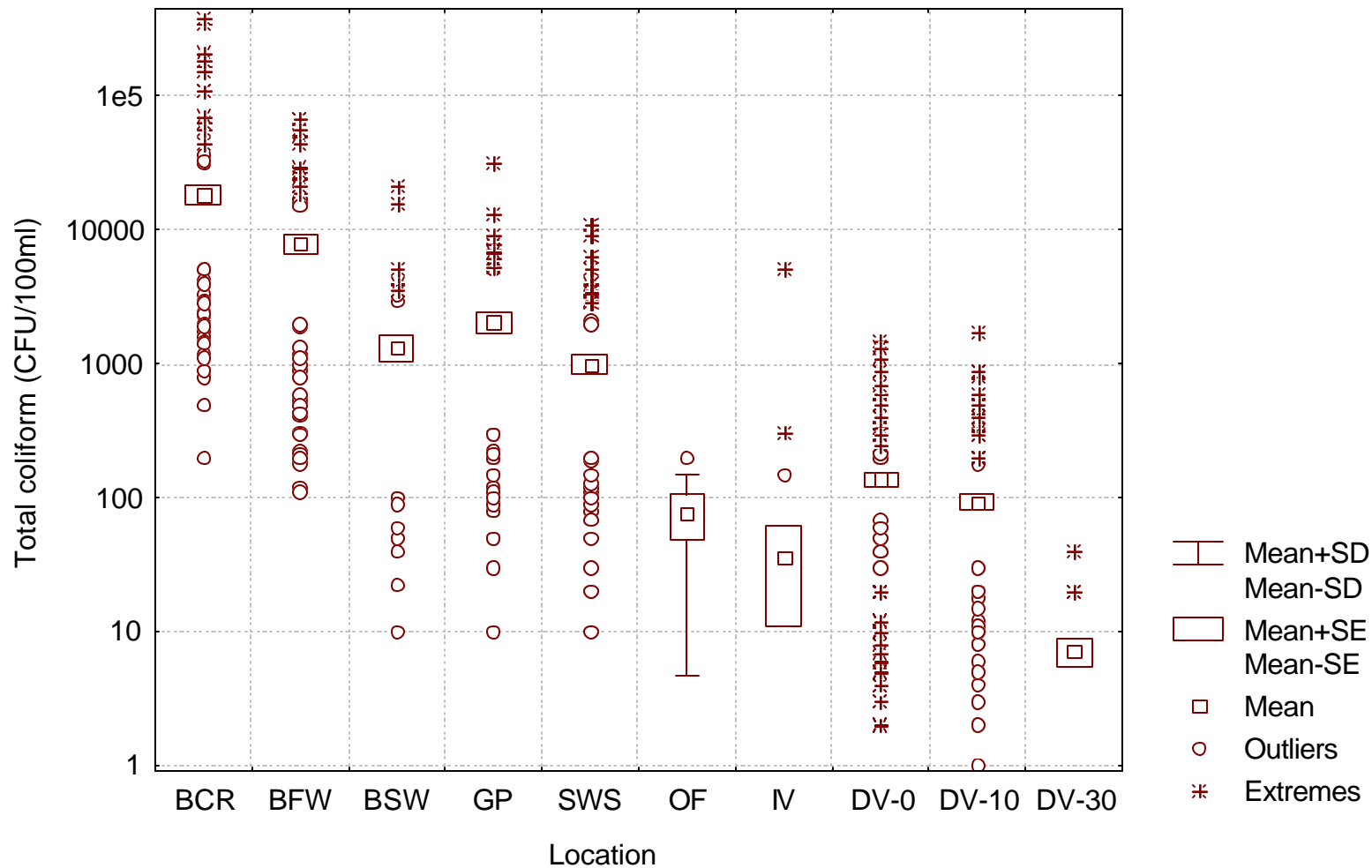
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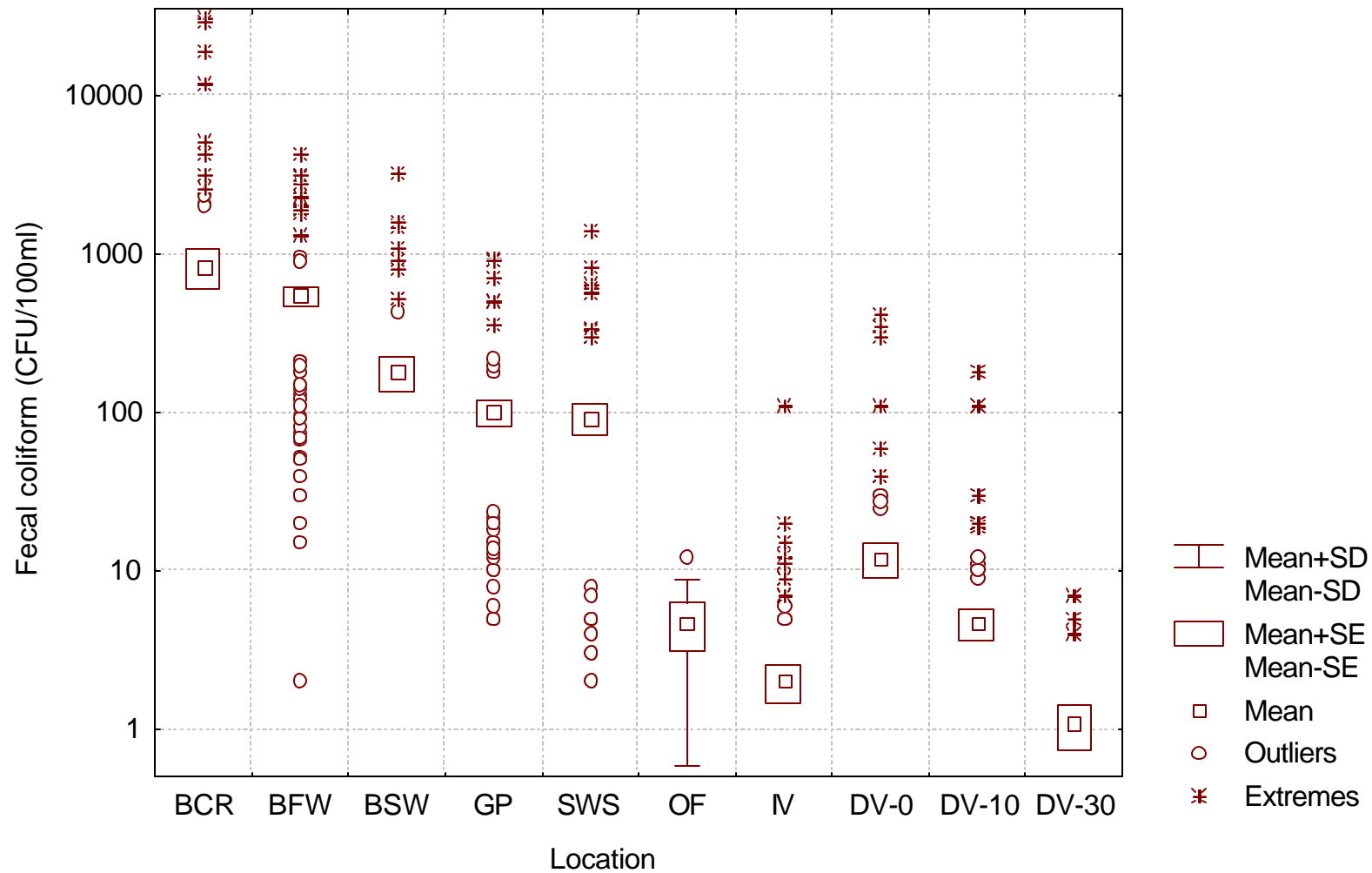


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Client: California Energy Commission		Date: April 2003
Project/Site: HBGS - AES Powerplant		Project No: 225-001
Title: Discharge Vault Laboratory Salinity		Plate No: 4-10







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Client:

California Energy Commission

Project/Site:

HBGS - AES Powerplant

Title:

Box Plot Analyses of Fecal Coliform By Location

Date:

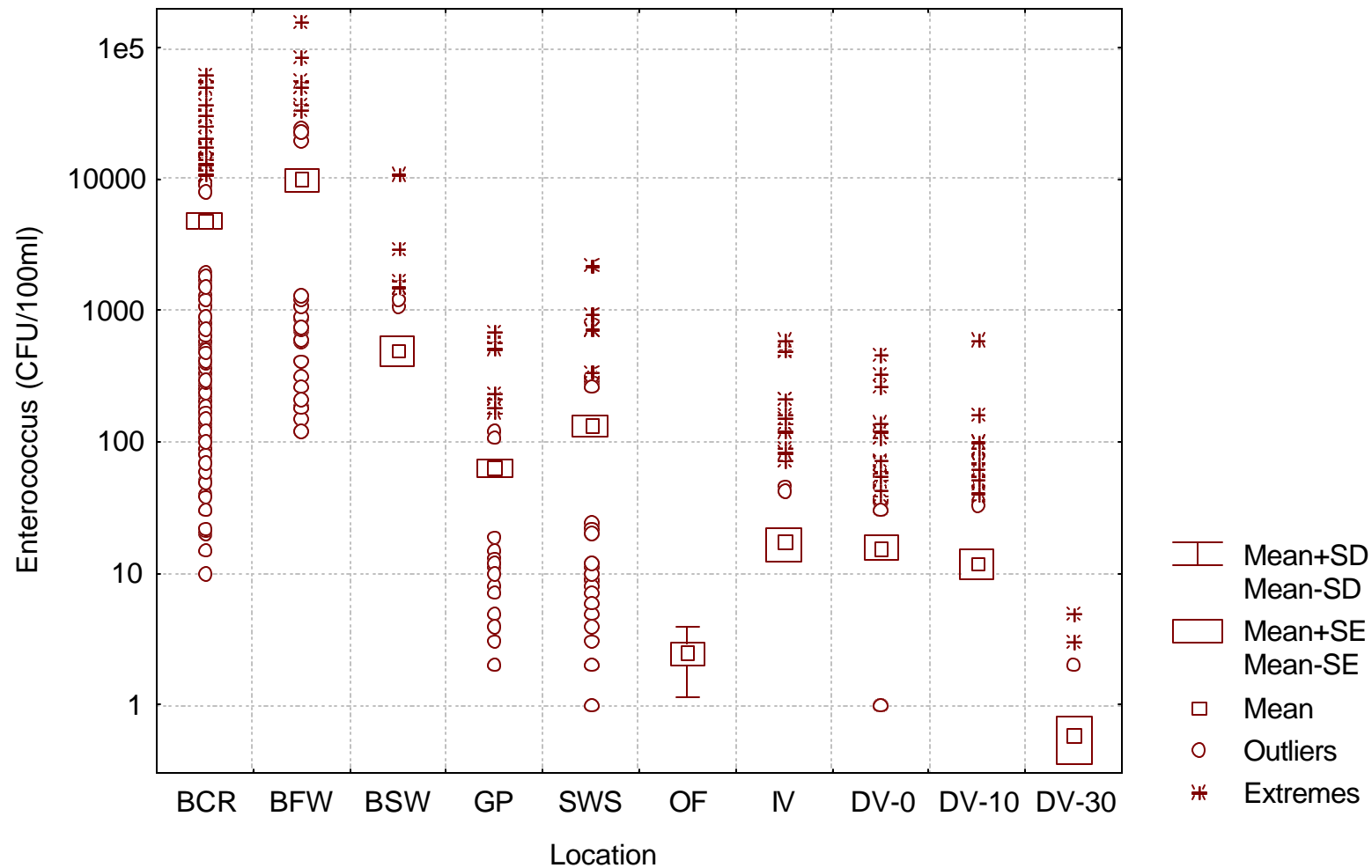
April 2003

Project No:

225-001

Plate No:

4-13



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Client:

California Energy Commission

Project/Site:

HBGS - AES Powerplant

Title:

Box Plot Analyses of Enterococcus By Location

Date:

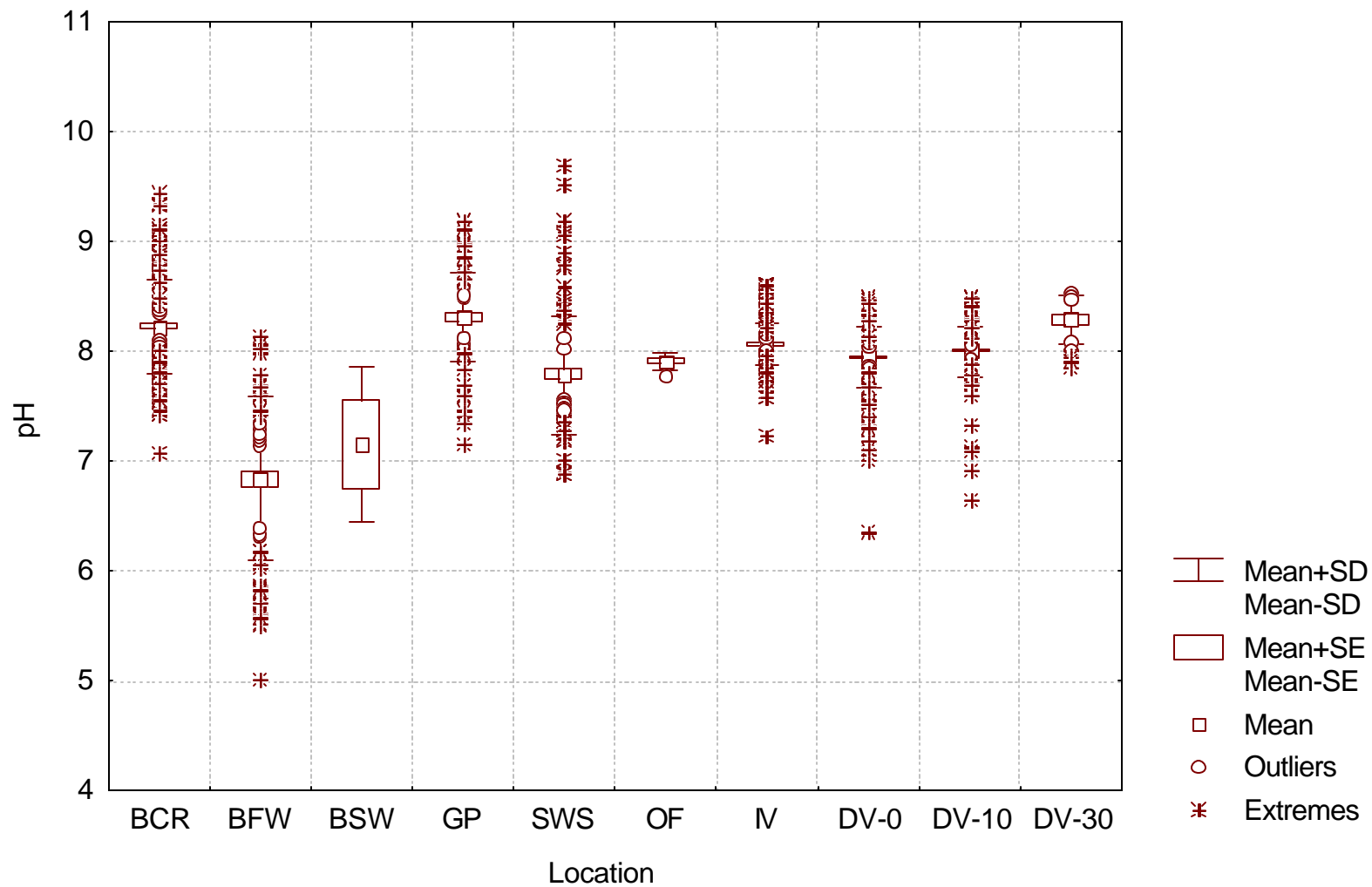
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Project No:

225-001

Plate No:

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Client: California Energy Commission

Project/Site: HBGS - AES Powerplant

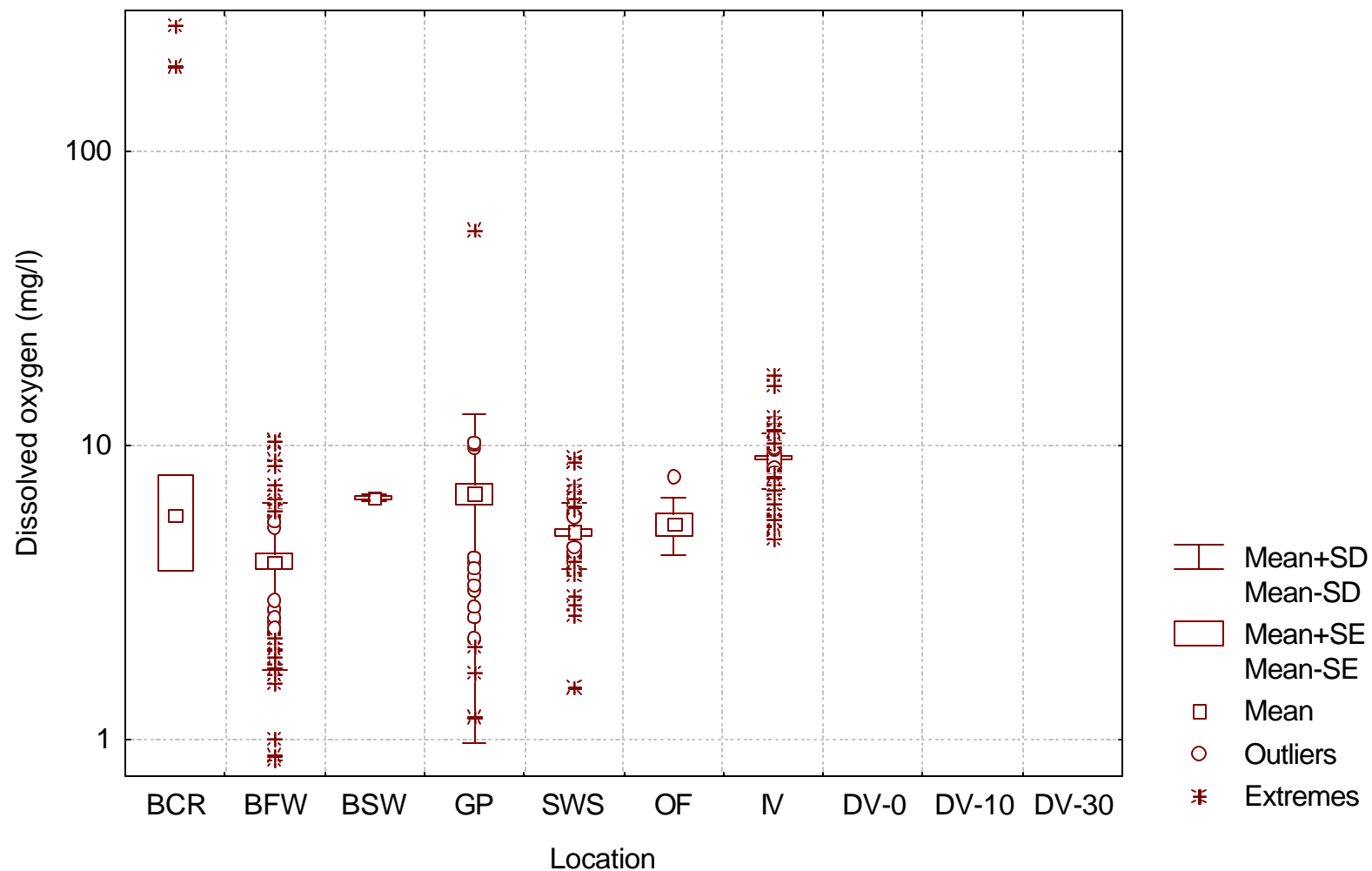
Title: Box Plot Analyses of pH By Location

Date: April 2003

Project No: 225-001

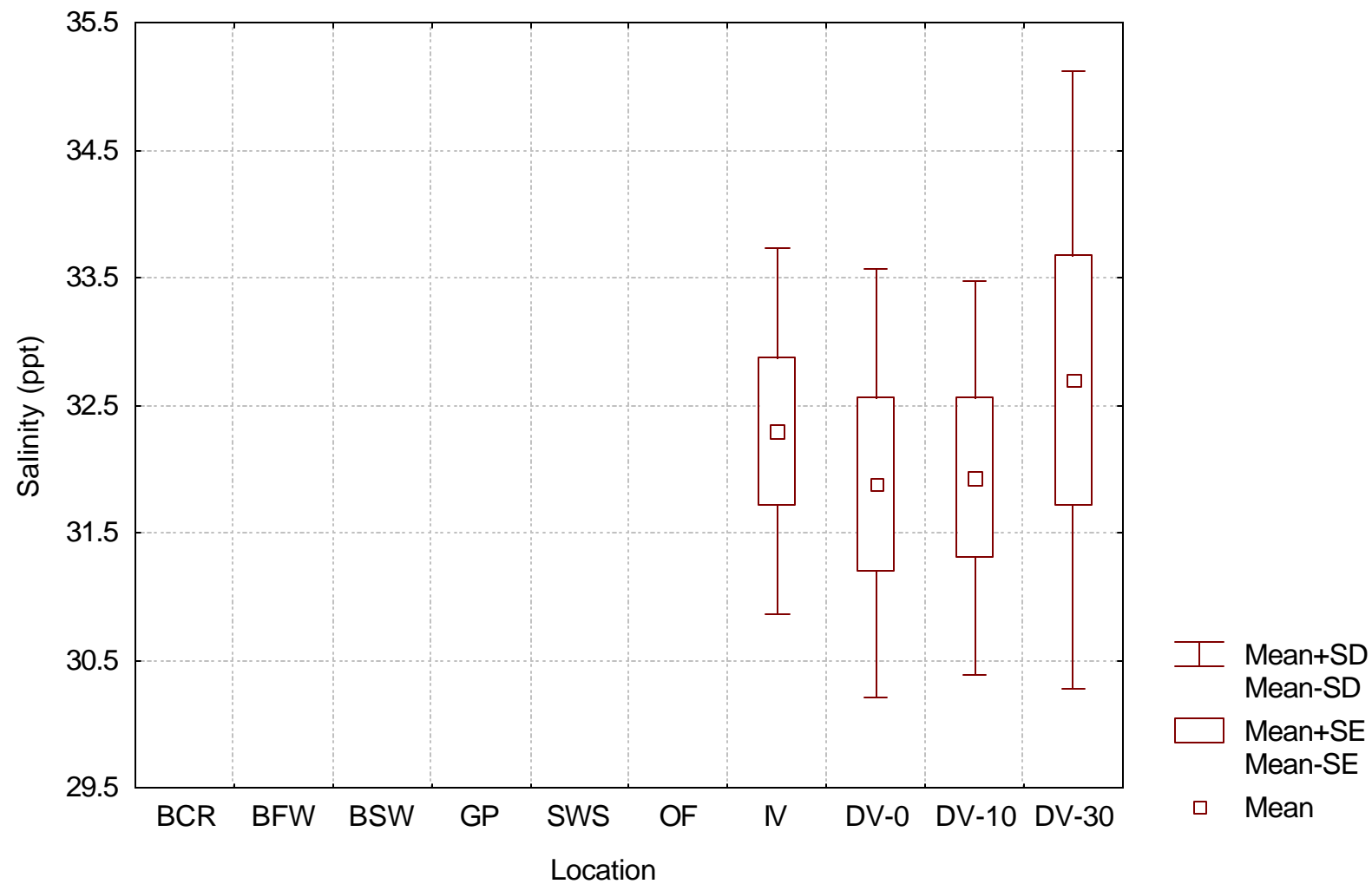
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Client:	California Energy Commission	Date:	April 2003
Project/Site:	HBGS - AES Powerplant	Project No:	225-001
Title:	Box Plot Analyses of Dissolved Oxygen By Location	Plate No:	4-16

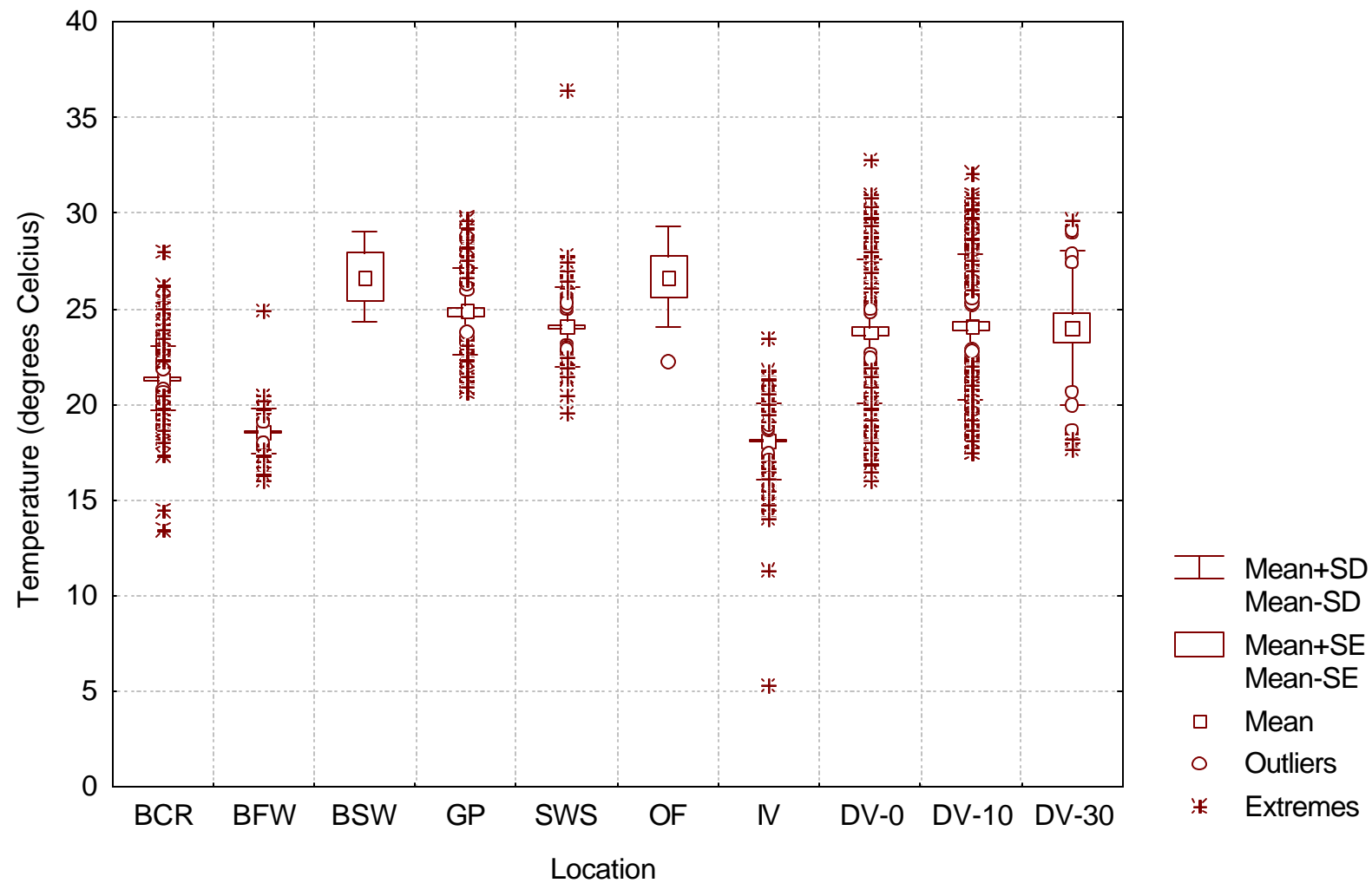


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Client:	California Energy Commission
Project/Site:	HBGS - AES Powerplant
Title:	Box Plot Analyses of Lab Measured Salinity By Location

Date:	April 2003
Project No:	225-001

Plate No:	4-17
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Client: California Energy Commission

Project/Site: HBGS - AES Powerplant

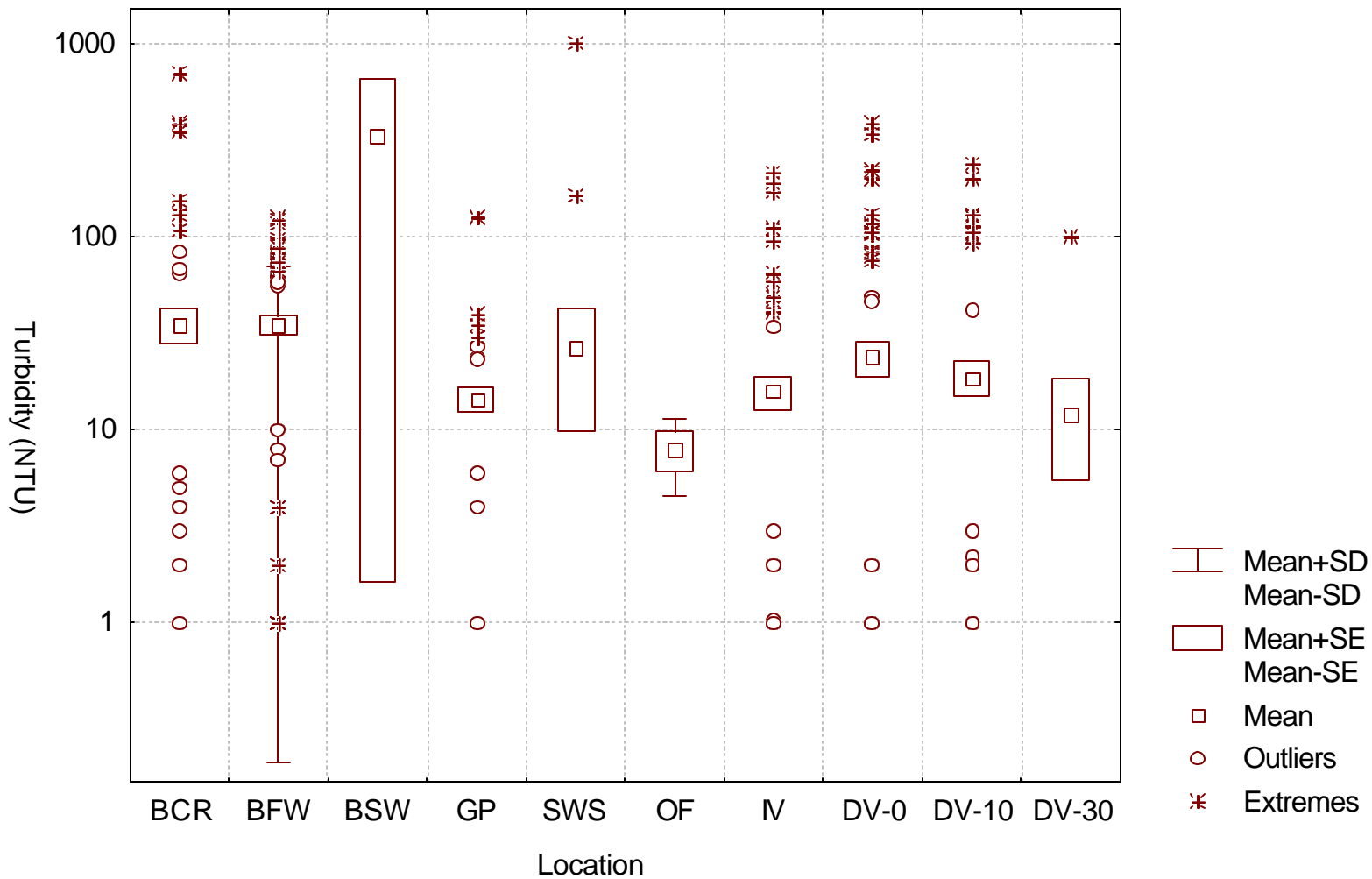
Title: Box Plot Analyses of Temperature By Location

Date: April 2003

Project No: 225-001

Plate No:

4-18



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Client:

California Energy Commission

Project/Site:

HBGS - AES Powerplant

Title:

Box Plot Analyses of Turbidity By Location

Date:

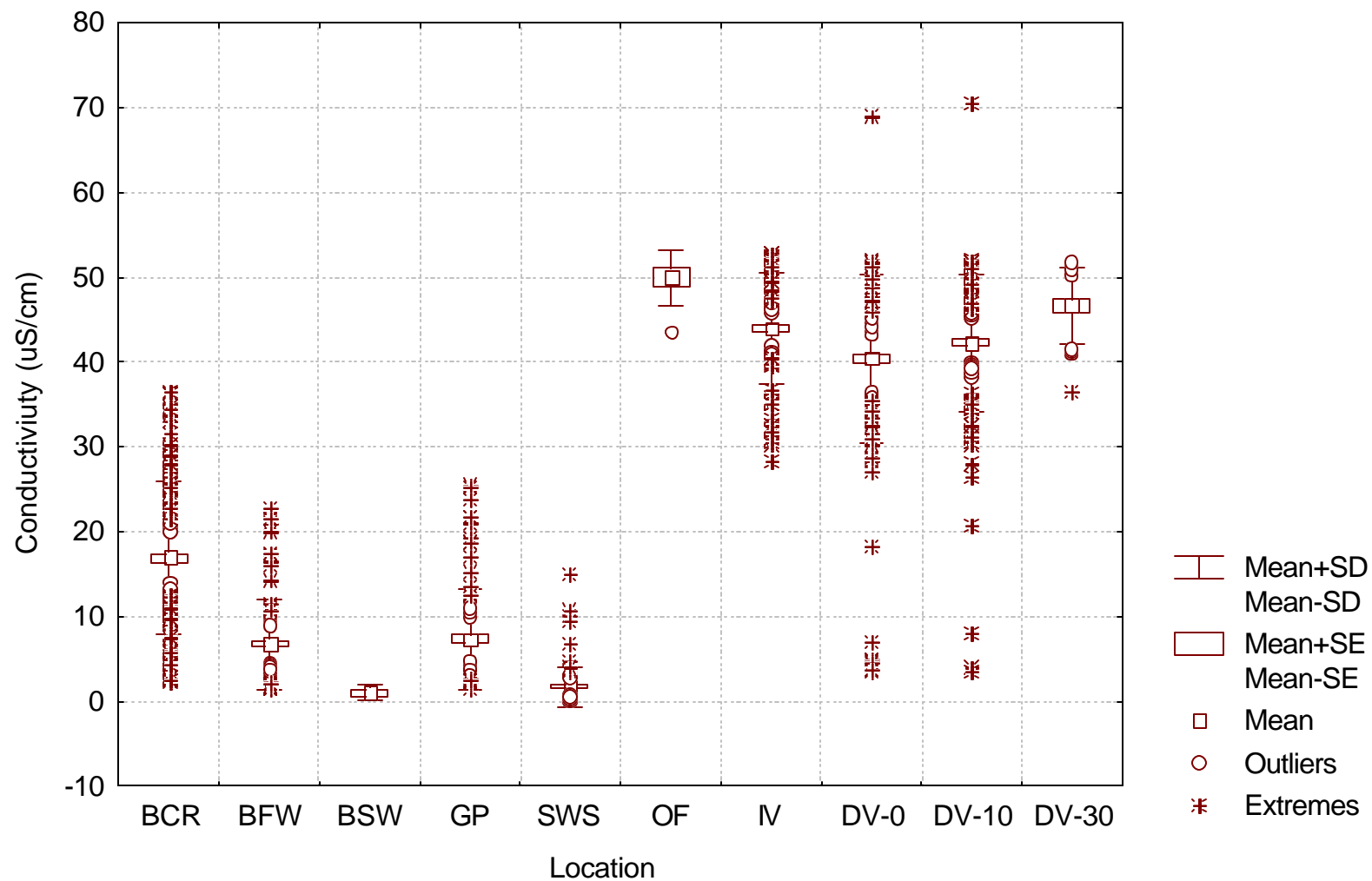
April 2003

Project No:

225-001

Plate No:

4-19



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Client:

California Energy Commission

Project/Site:

HBGS - AES Powerplant

Title:

Box Plot Analyses of Conductivity By Location

Date:

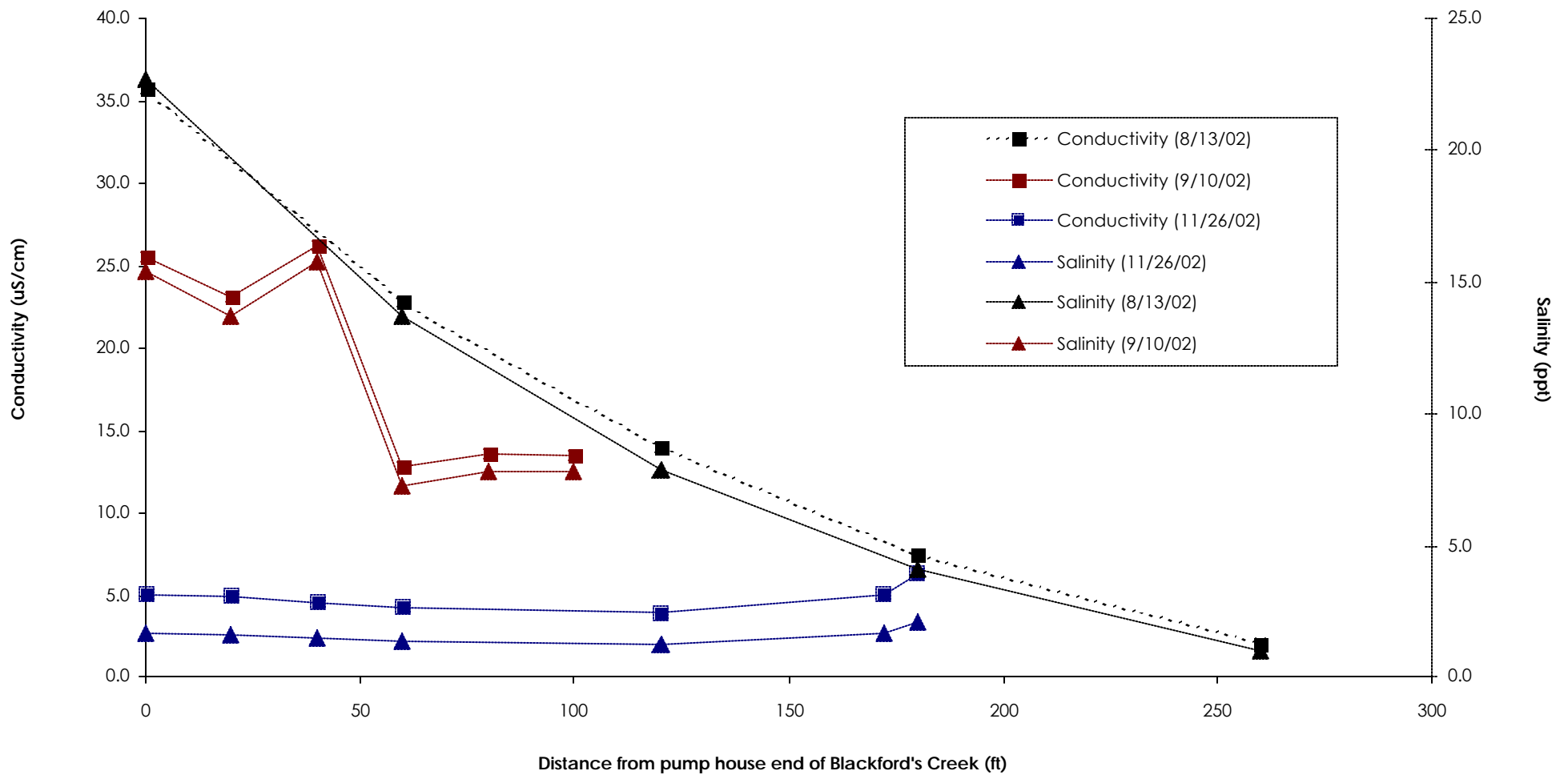
April 2003

Project No:

225-001

Plate No:

4-21



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Client: California Energy Commission

Project/Site: HBGS - AES Powerplant

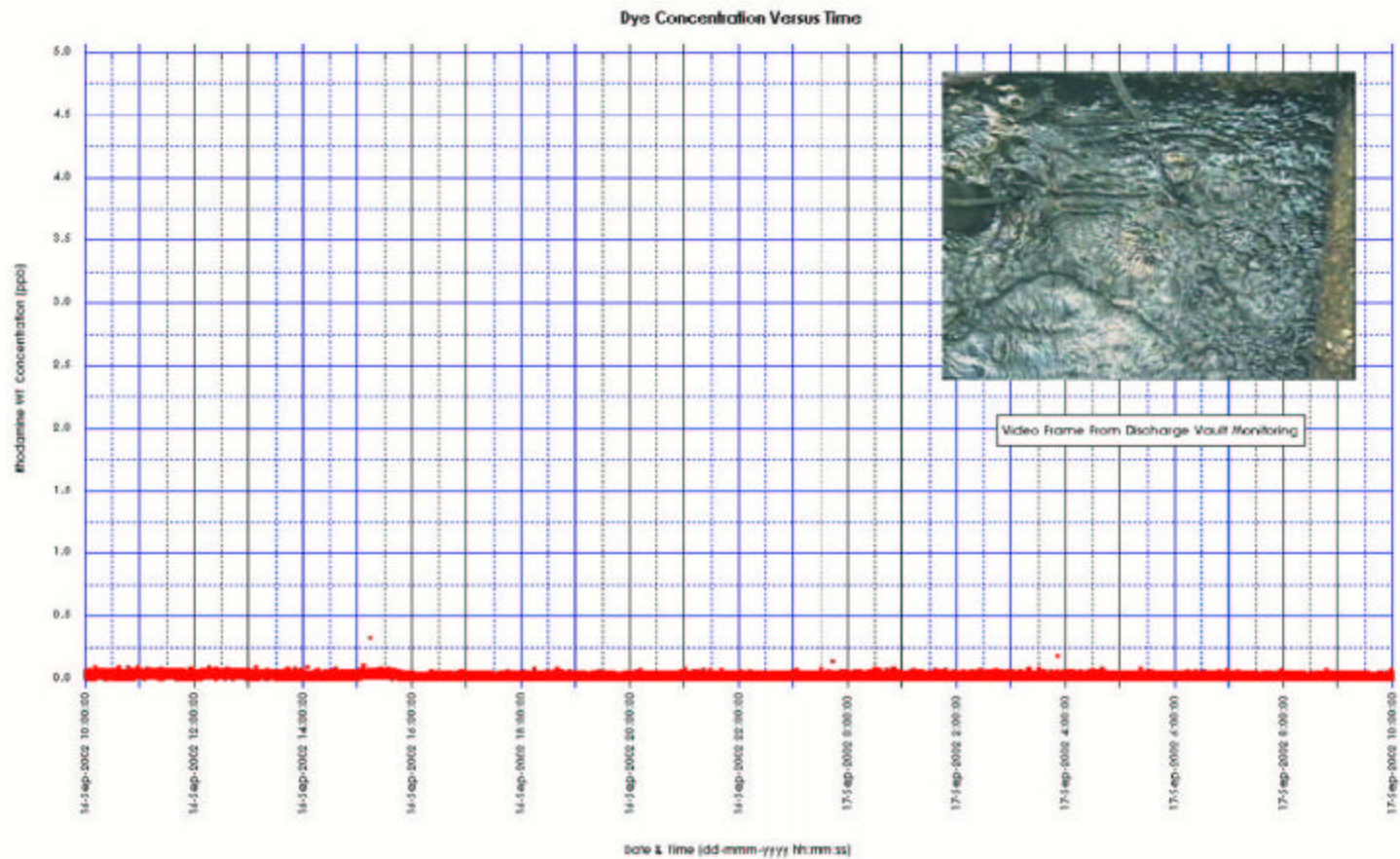
Title: Blackford's Ditch Conductivity and Salinity Gradient

Date: April 2003

Project No: 225-001

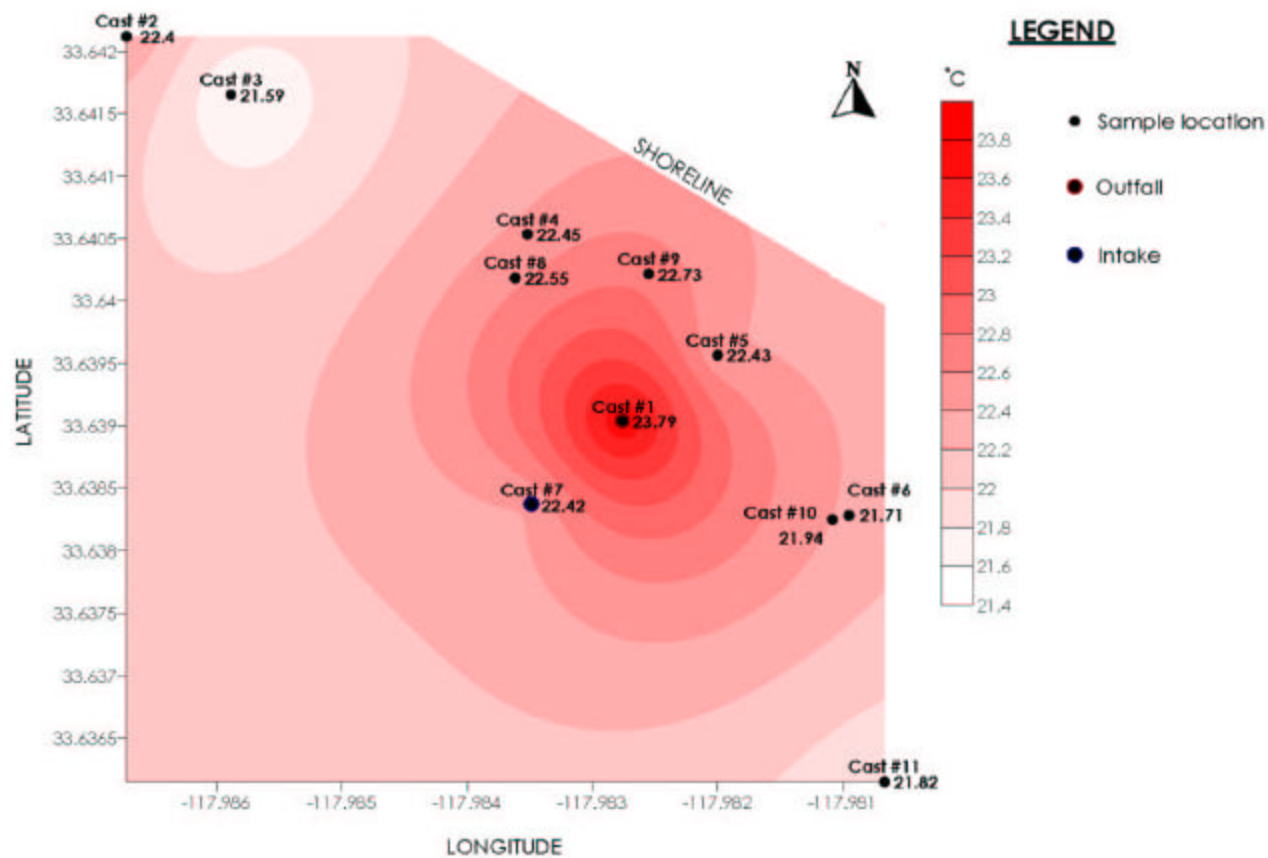
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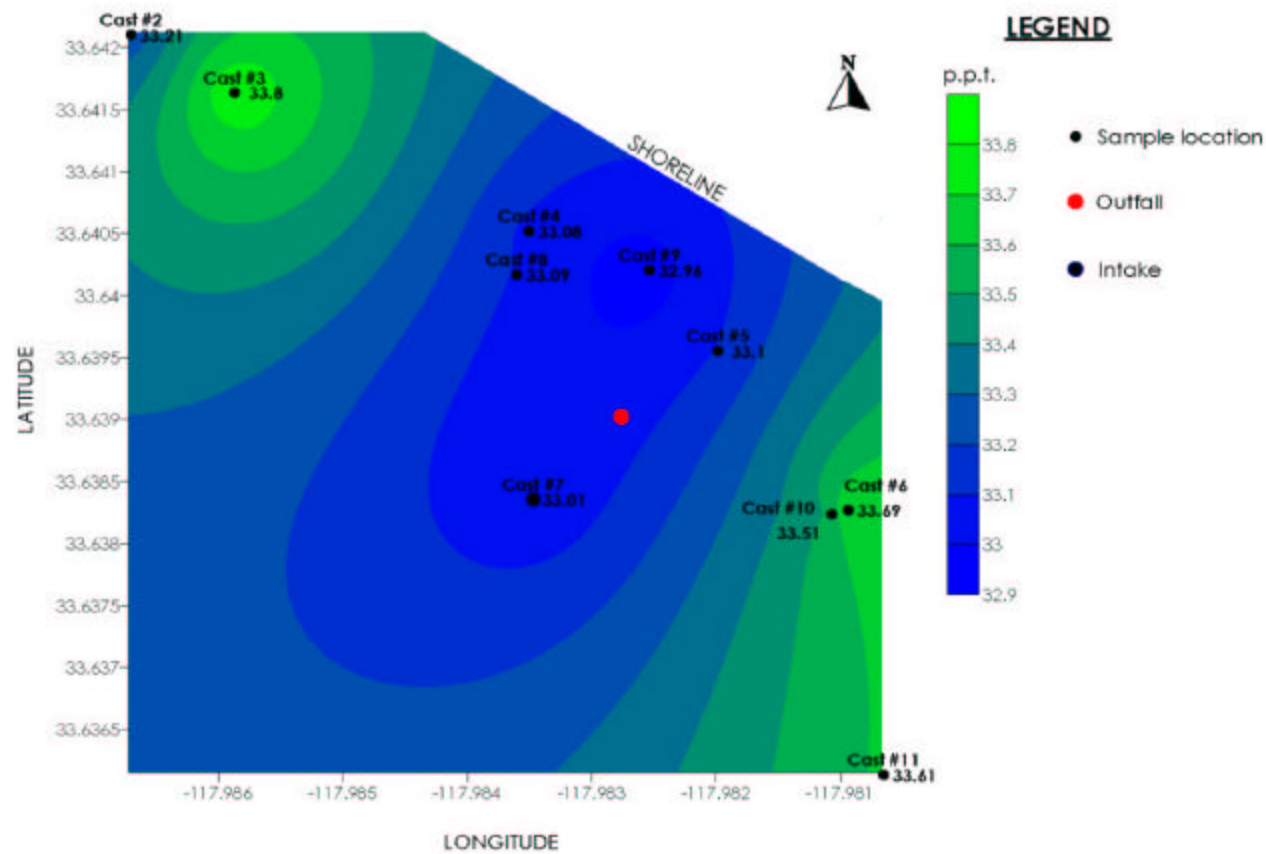
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Client:	California Energy Commission	Date:	April 2003
Project/Site:	HBGS - AES Powerplant	Project No:	225-001
Title:	Time Series Plot of Sanitary Sewer Dye Test	Plate No:	4-23



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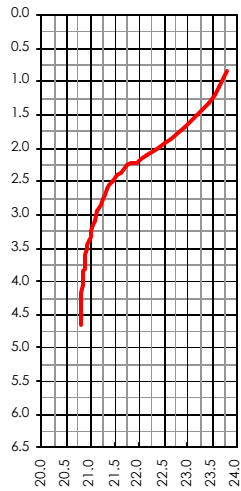
Client:	California Energy Commission	Date:	April 2003
Project/Site:	HBGS - AES Powerplant	Project No:	225-001
Title:	Horizontal Temperature Surface Gradient at the Outfall and Cast Locations		Plate No:



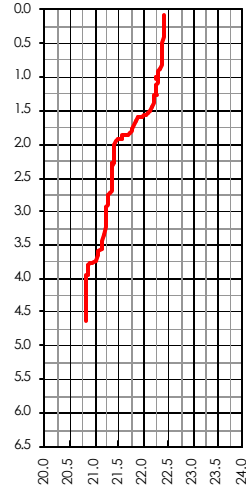
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Client:	California Energy Commission	Date:	April 2003
Project/Site:	HBGS - AES Powerplant	Project No:	225-001
Title:	Horizontal Salinity Surface Gradient at the Outfall and Cast Locations		4-25

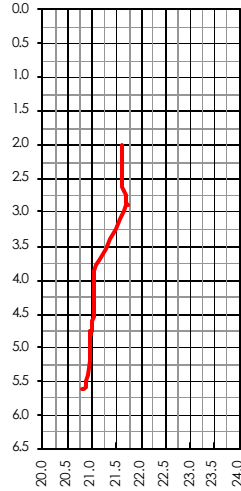
OFFSHORE DYE STUDY - TUESDAY, AUGUST 20, 2002 - CTD CAST RESULTS - TEMPERATURE



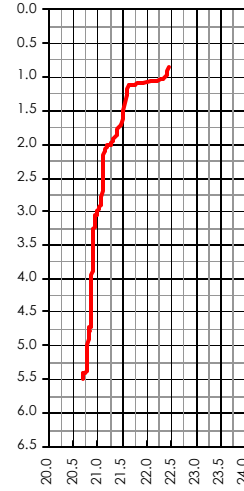
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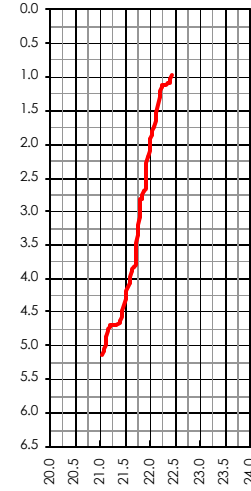
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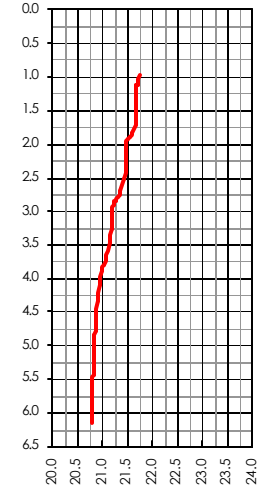
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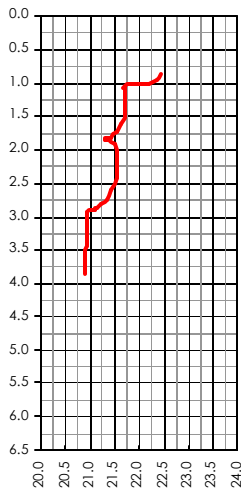
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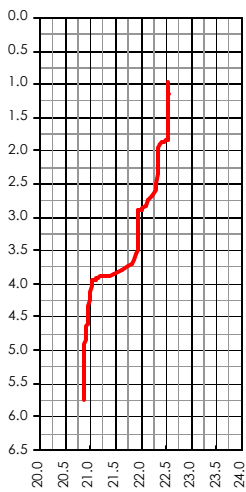
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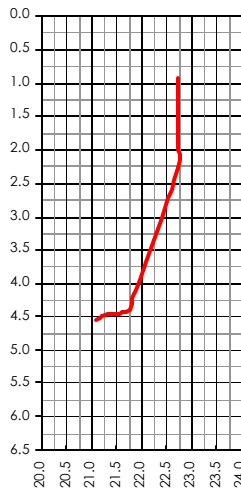
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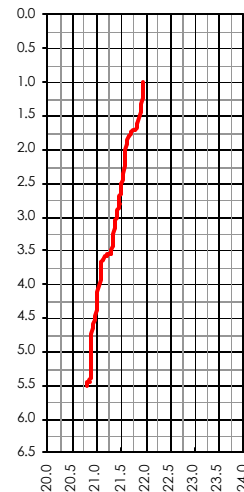
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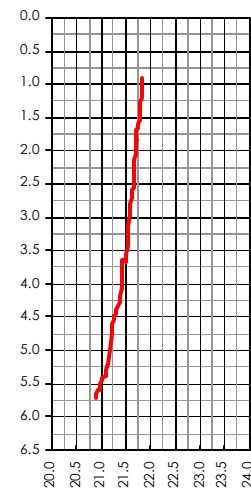
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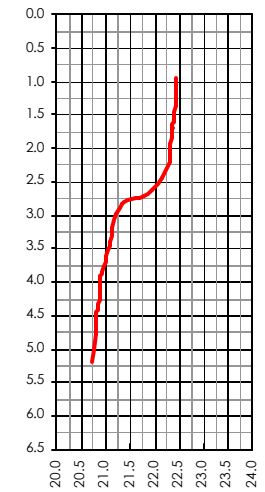
CAST #9



CAST #10



CAST #11



CAST #1 - 08/22/02

Depths (shown along the vertical axis in each graph) are in meters.

Temperatures (shown along the horizontal axis in each graph) are in degrees Centigrade



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Client:

California Energy Commission

Project/Site:

HBGS - AES Powerplant

Title:

CTD Cast Results-Temperature

Date:

April 2003

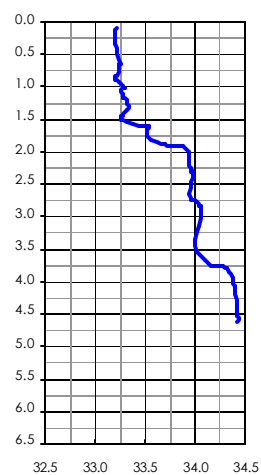
Project No:

225-001

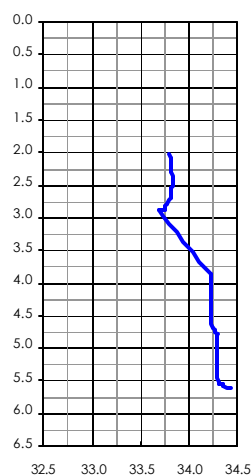
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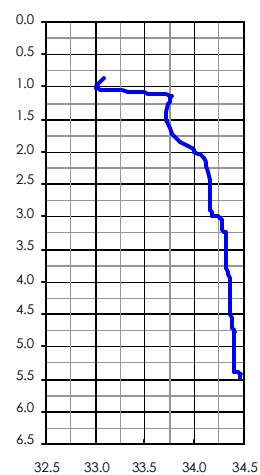
OFFSHORE DYE STUDY - TUESDAY, AUGUST 20, 2002 - CTD CAST RESULTS - SALINITY



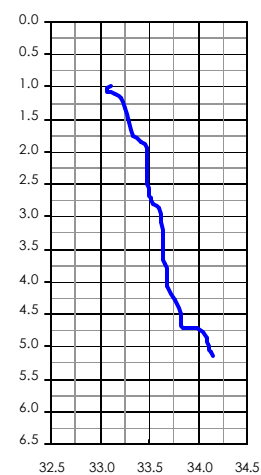
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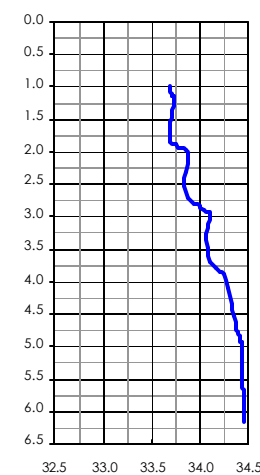
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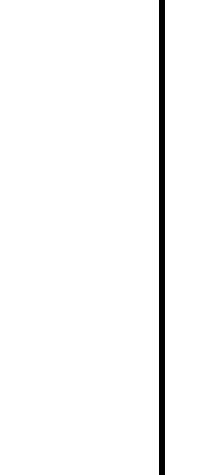
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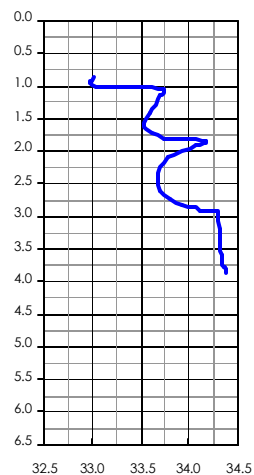
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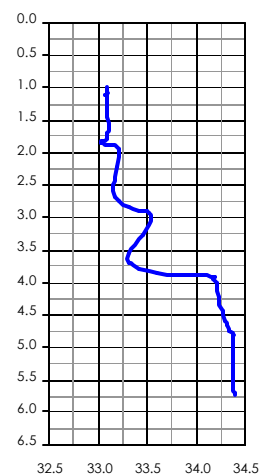
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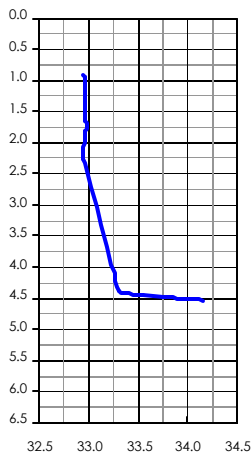
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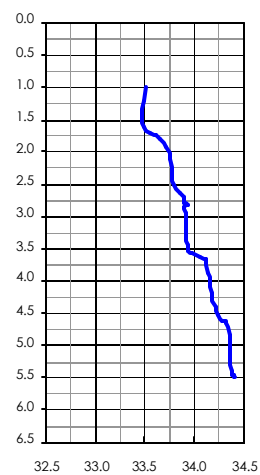
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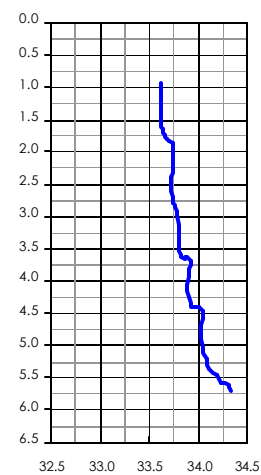
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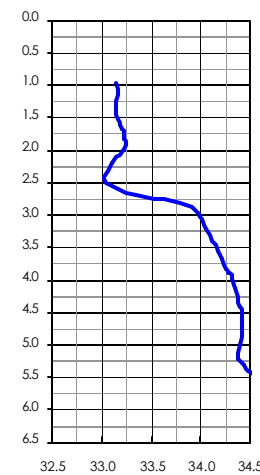
CAST #9



CAST #10



CAST #11



CAST #1 - 08/22/02

Depths (shown along the vertical axis in each graph) are in meters.
Salinities (shown along the horizontal axis in each graph) are in p.p.t.



PREPARED SOLELY FOR THE USE OF OUR CLIENT AND NO REPRESENTATION OF ANY KIND IS MADE TO OTHER PARTIES WITH WHICH KOMEX HAS ENTERED INTO A CONTRACT.

Client:

California Energy Commission

Project/Site:

HBGS - AES Powerplant

Title:

CTD Cast Results-Salinity

Date:

April 2003

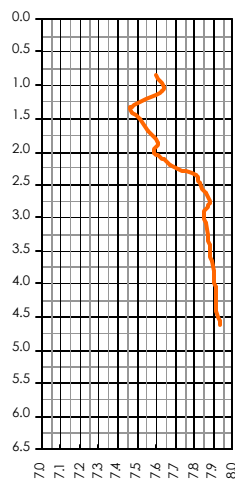
Project No:

225-001

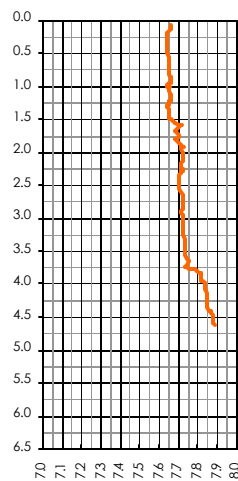
Plate No:

4-27

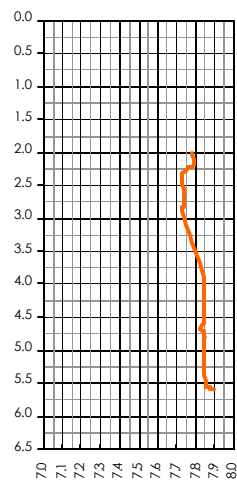
OFFSHORE DYE STUDY - TUESDAY, AUGUST 20, 2002 - CTD CAST RESULTS - DISSOLVED OXYGEN



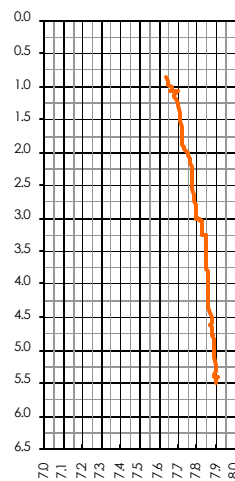
CAST #1



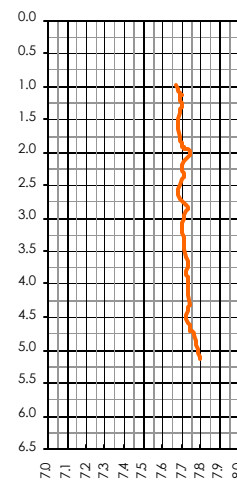
CAST #2



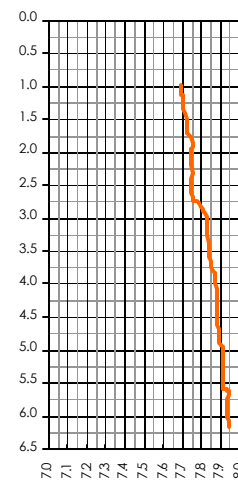
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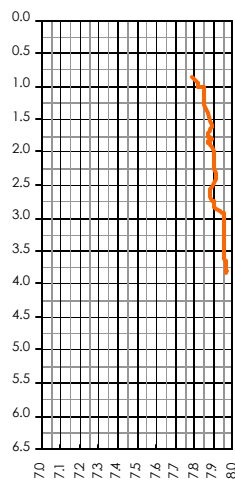
CAST #4



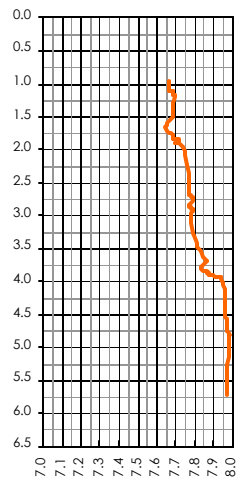
CAST #5



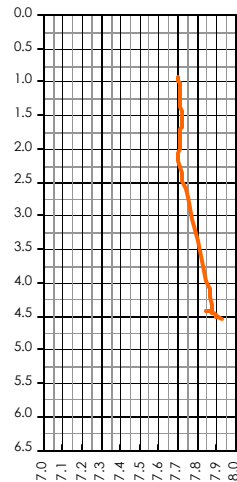
CAST #6



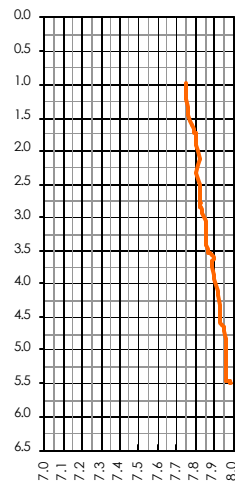
CAST #7



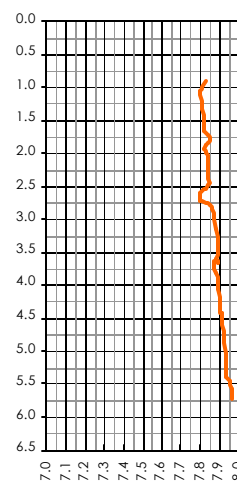
CAST #8



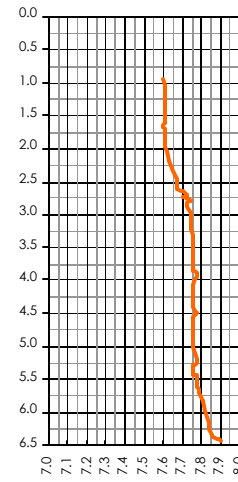
CAST #9



CAST #10



CAST #11



CAST #1 - 08/22/02

Depths (shown along the vertical axis in each graph) are in meters.

Dissolved Oxygen concentrations (shown along the horizontal axis in each graph) are in mg/L.



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Client:

California Energy Commission

Project/Site:

HBGS - AES Powerplant

Title:

CTD Cast Results-Dissolved Oxygen

Date:

April 2003

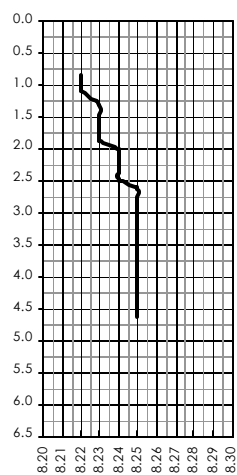
Project No:

225-001

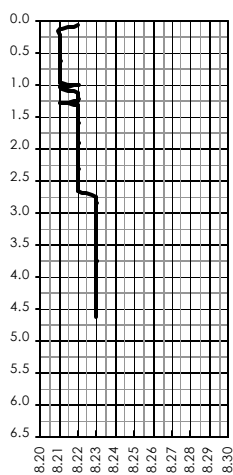
Plate No:

4-28

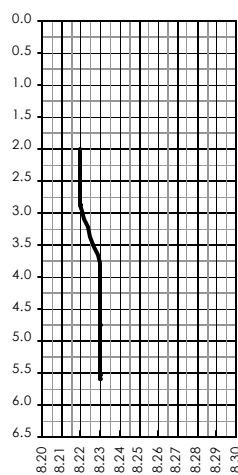
OFFSHORE DYE STUDY - TUESDAY, AUGUST 20, 2002 - CTD CAST RESULTS - pH



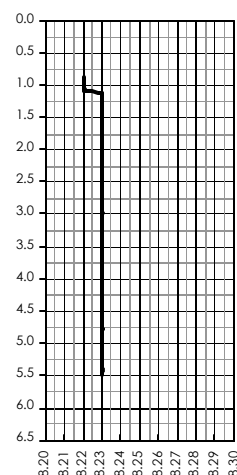
CAST #1



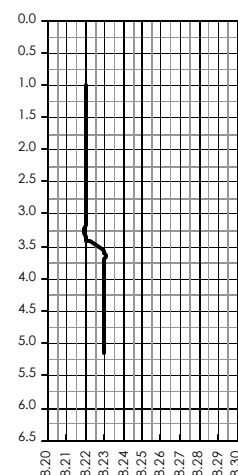
CAST #2



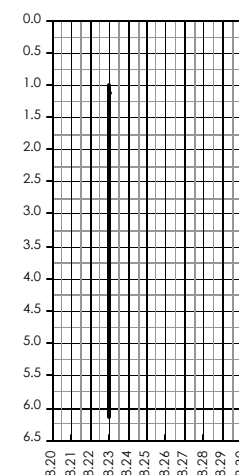
CAST #3



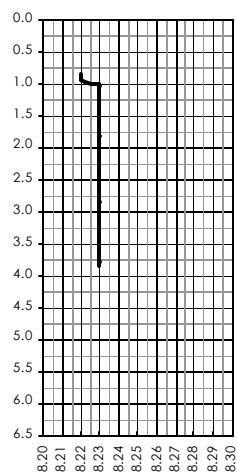
CAST #4



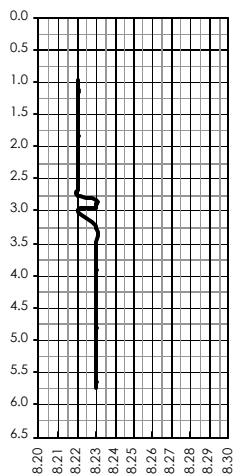
CAST #5



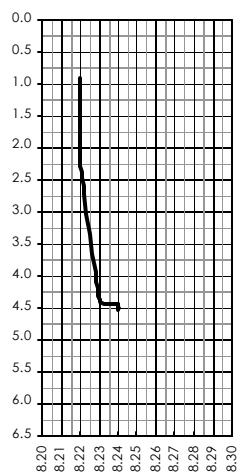
CAST #6



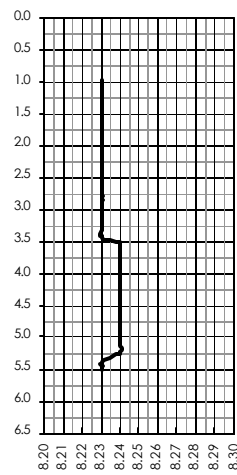
CAST #7



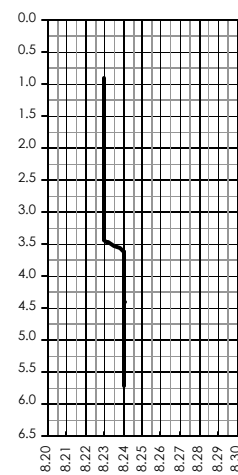
CAST #8



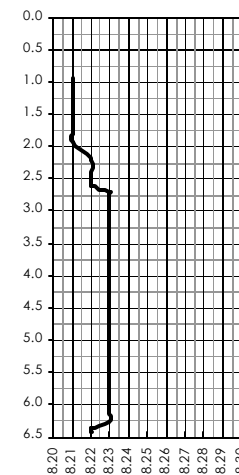
CAST #9



CAST #10



CAST #11



CAST #1 - 08/22/02

Depths (shown along the vertical axis in each graph) are in meters.
pH (shown along the horizontal axis in each graph) is in pH units.



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Client:

California Energy Commission

Project/Site:

HBGS - AES Powerplant

Title:

CTD Cast Results-pH

Date:

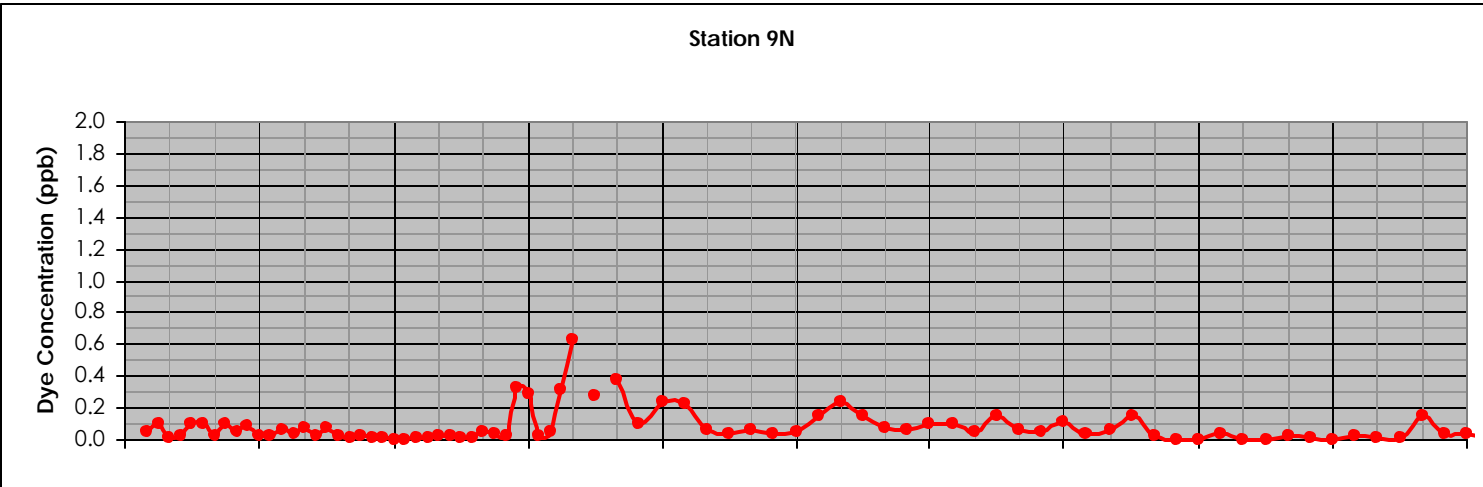
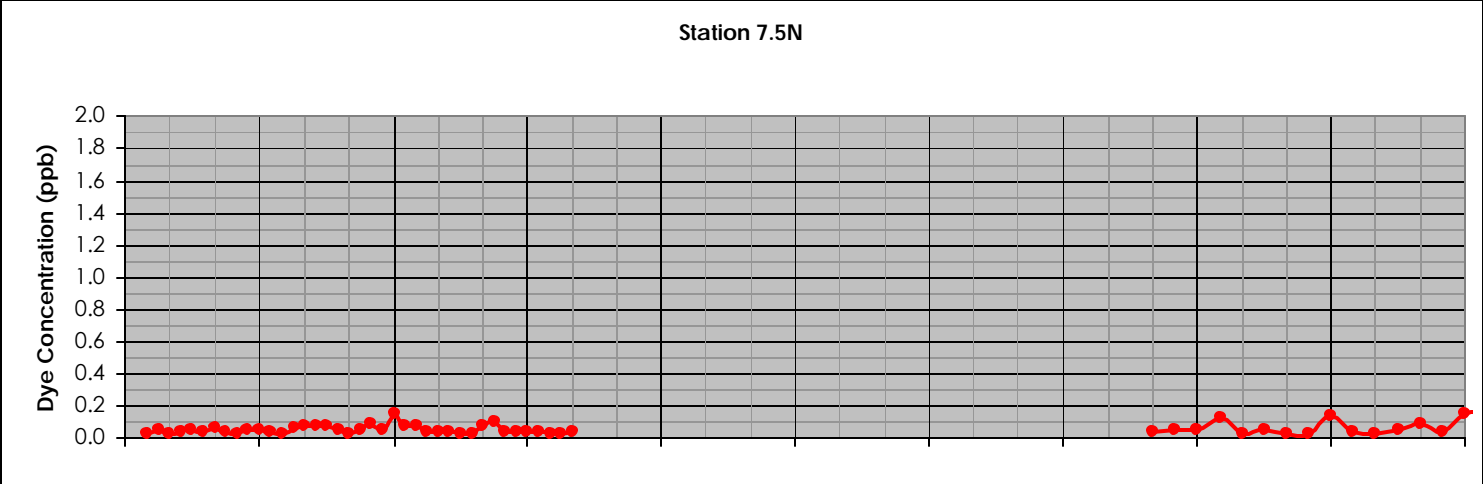
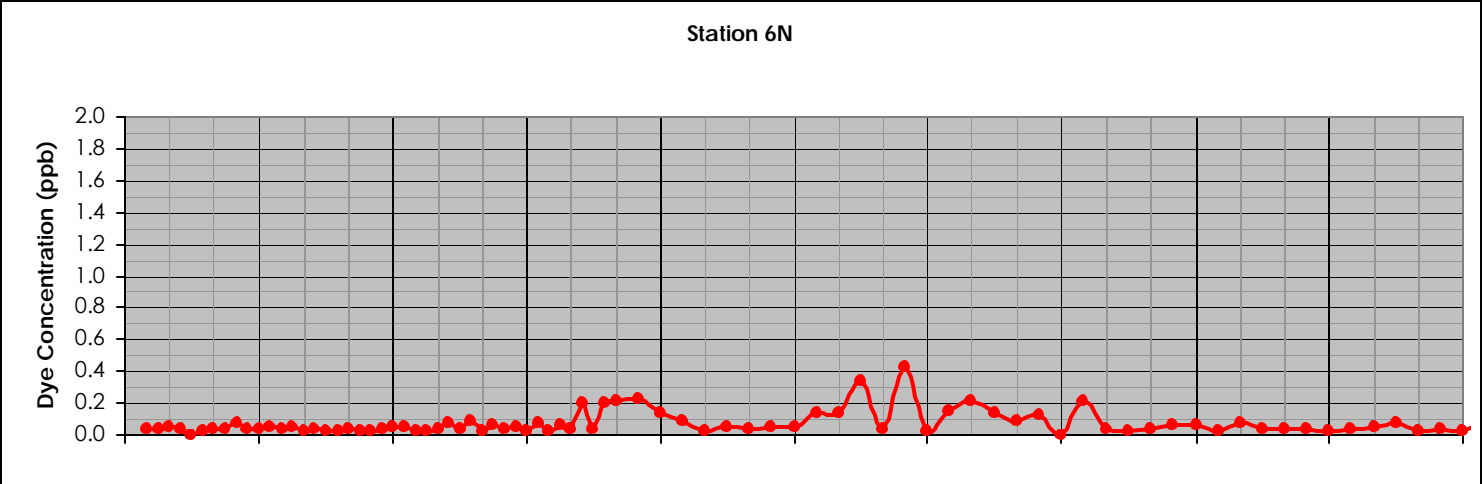
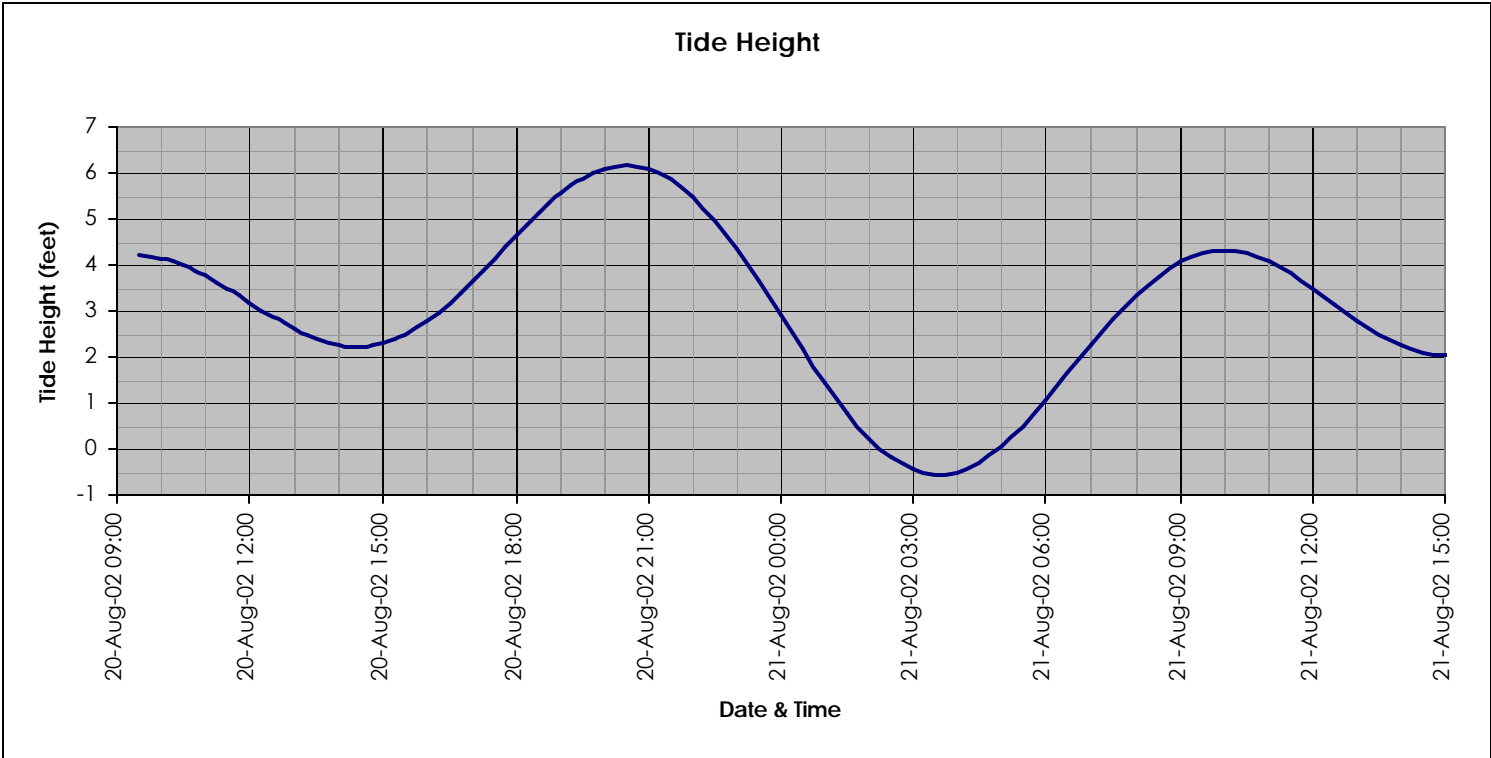
April 2003

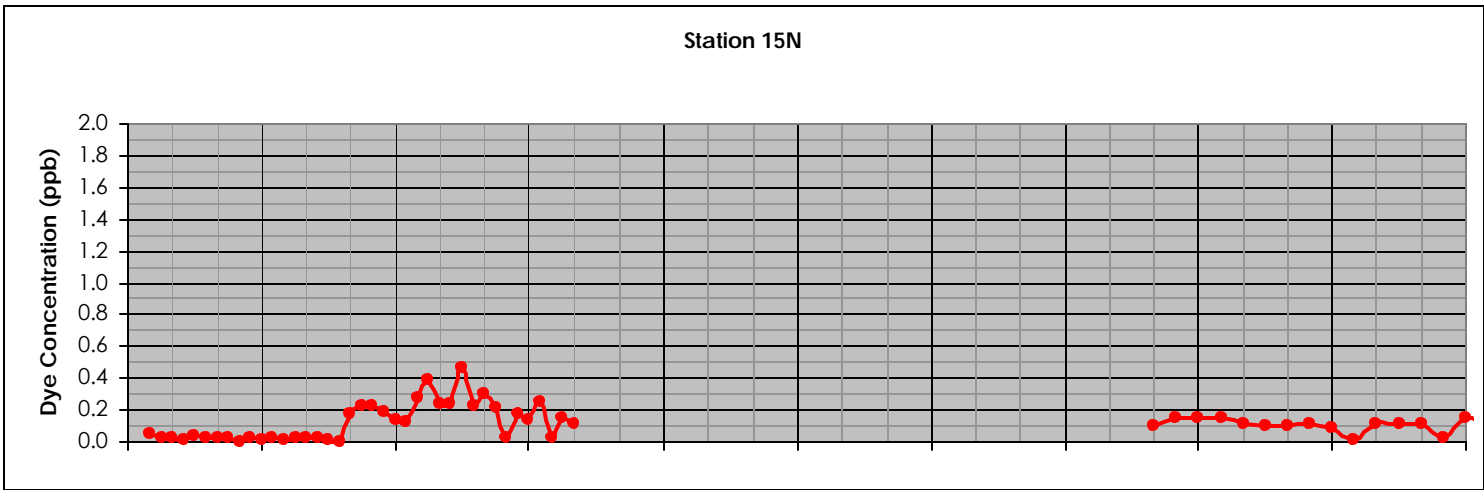
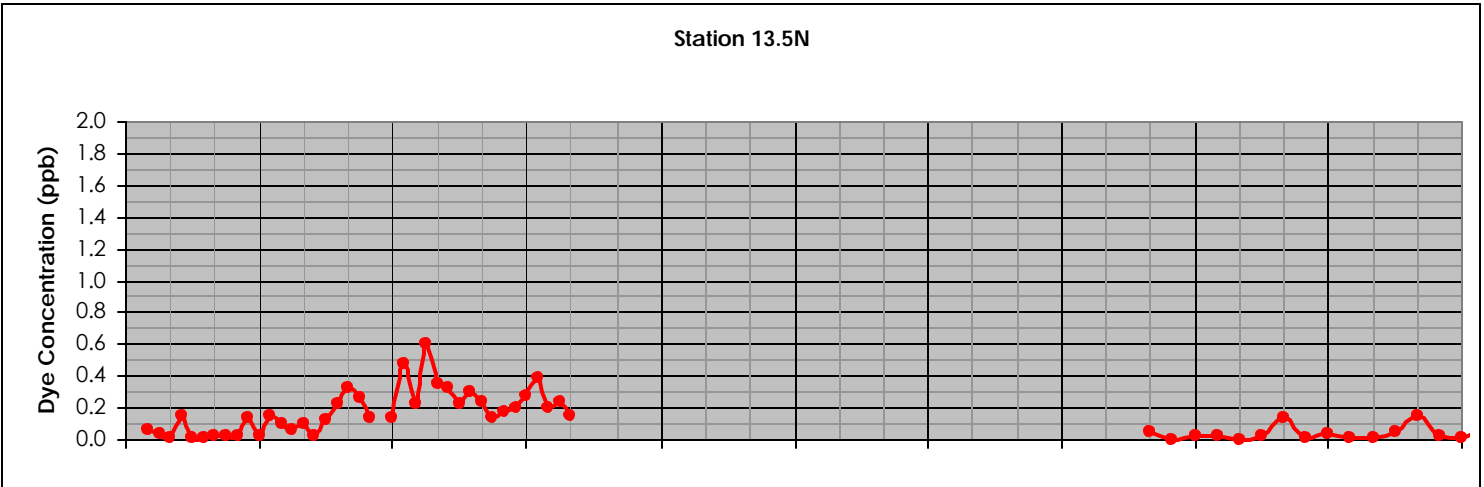
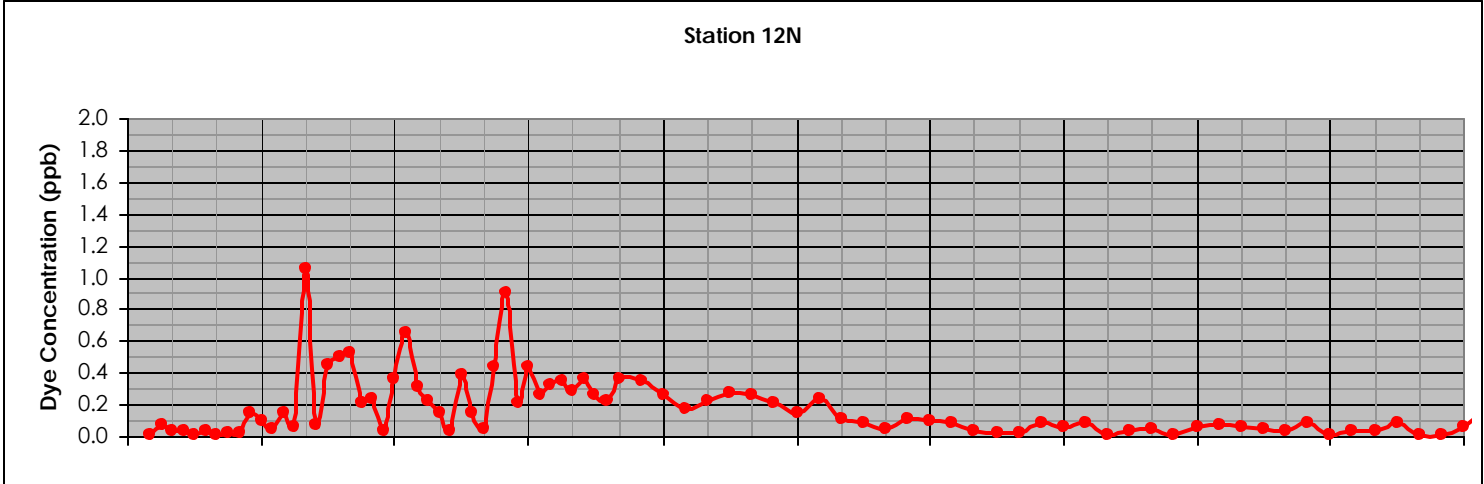
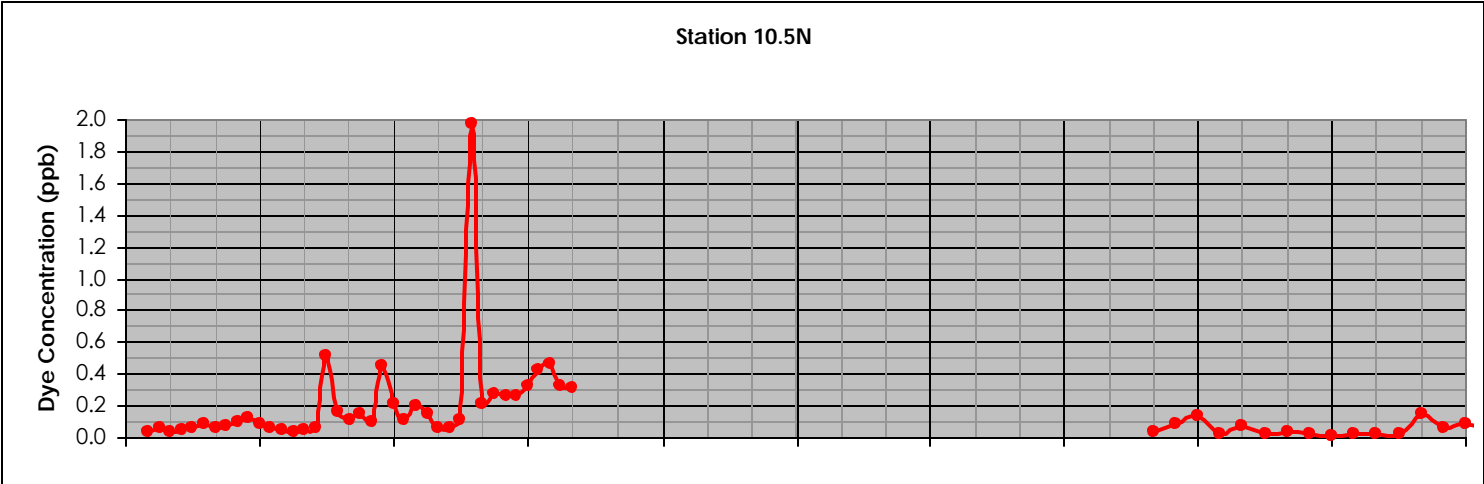
Project No:

225-001

Plate No:

4-29





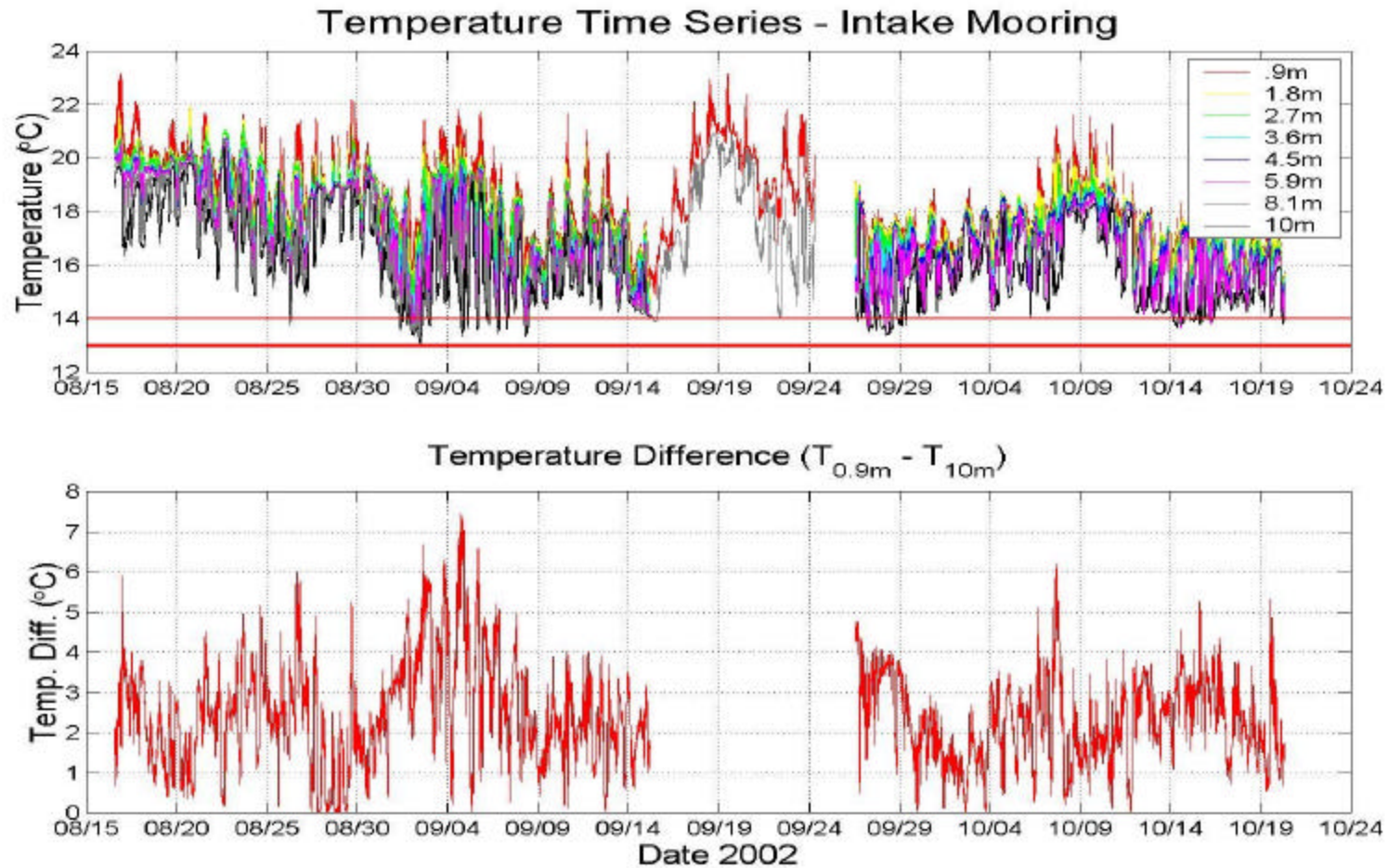
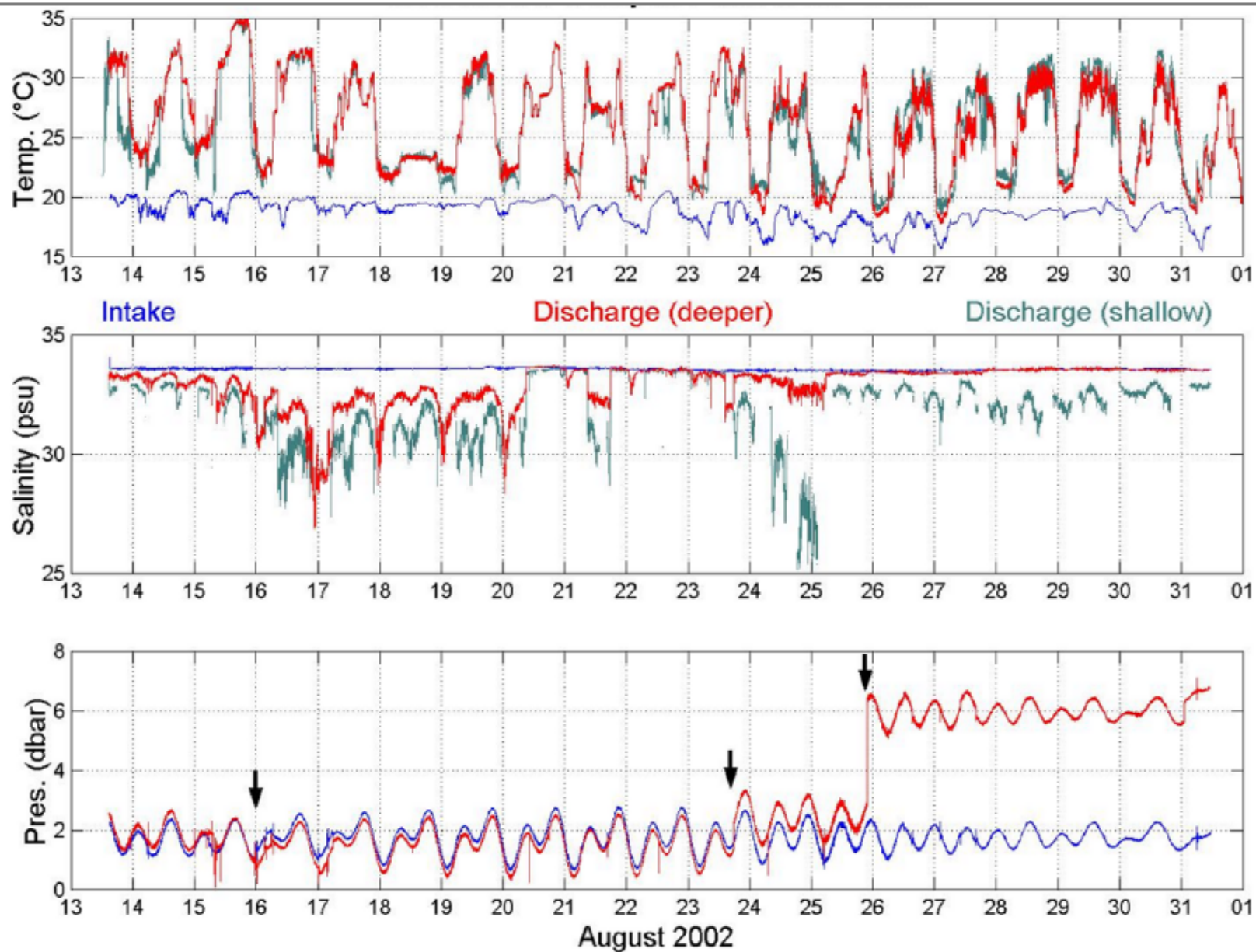


Figure M-0. Time series of temperature from the mooring near the cooling water intake for August 16 through October 20, 2002. The bottom panel shows the temperature difference between the nearsurface temperature at 0.9 meters and the nearbottom temperature at 10 meters. In the top panel, the horizontal red lines are at 13 and 14 degrees.



PREPARED SOLELY FOR THE USE OF OUR CLIENT AND NO REPRESENTATION OF ANY KIND IS MADE TO OTHER PARTIES WITH WHICH KOMEX HAS ENTERED INTO A CONTRACT.

Client:	California Energy Commission	Date:	April 2003
Project/Site:	HBGS - AES Powerplant	Project No:	225-001
Title:	Temperature Time Series - Intake Mooring	Plate No:	4-31



REPRODUCED FROM THE ORIGINAL DATA
 PROVIDED BY THE MONITORING AND
 RECORDING UNIT OF THE PLANT

Client: California Energy Commission

Project / Site: HBGS - AES Powerplant

Title: Intake Vault Temperature, Salinity and Pressure
 Time Series - August

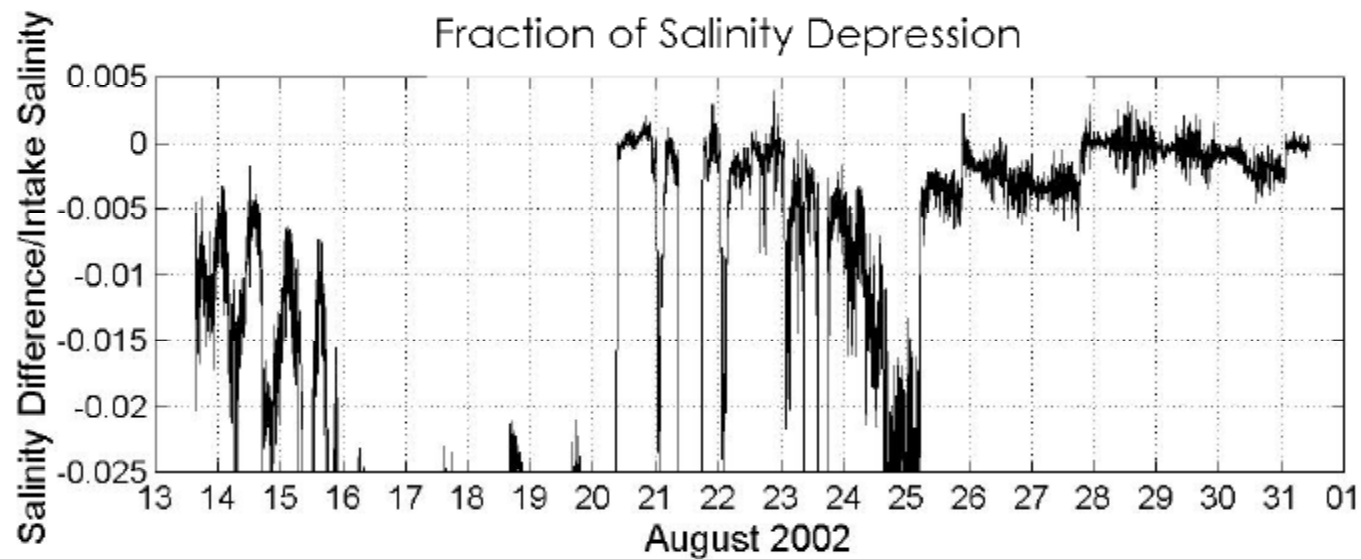
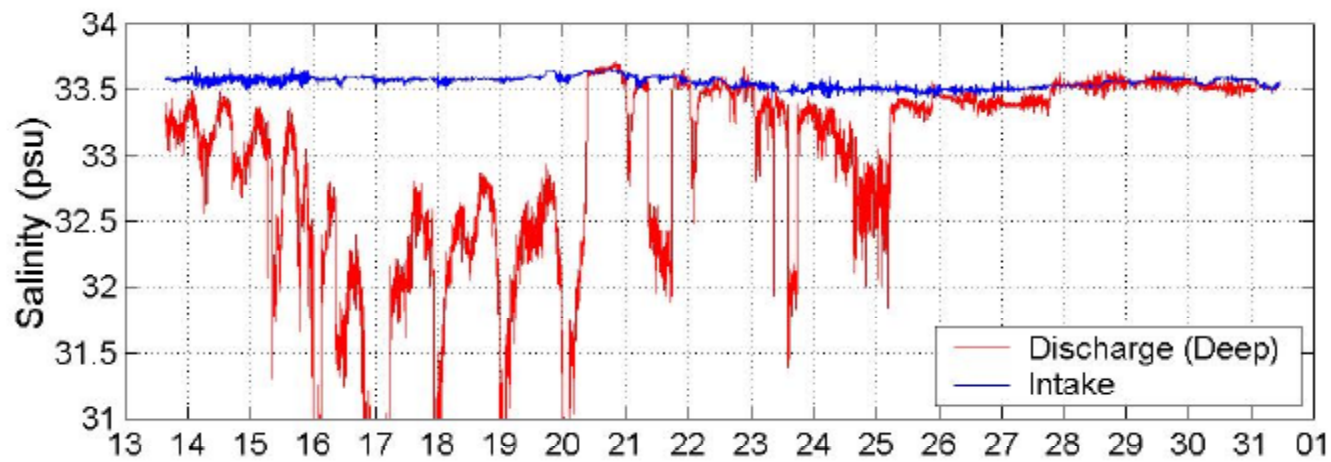
Date: April 2003

Project No.: April 2003

Figure No:

4-32

Salinity - Deployment 1



REPRODUCED FROM THE ORIGINAL DATA
 PROVIDED BY THE CALIFORNIA ENERGY COMMISSION
 THE CALIFORNIA ENERGY COMMISSION

Client:

California Energy Commission

Project/Site:

HBGS - AES Powerplant

Title:

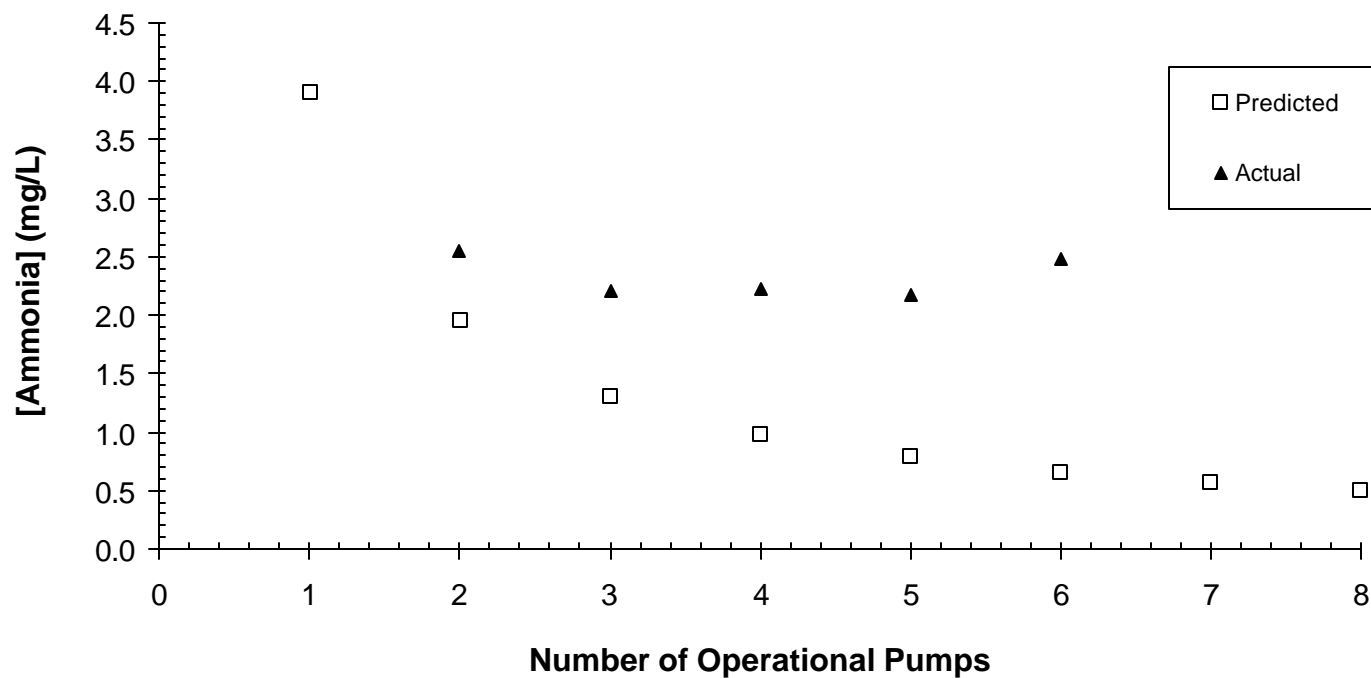
Salinity During the First Deployment and
 the Fraction of Salinity Depression

Date: April 2003

Project No.: 225-001

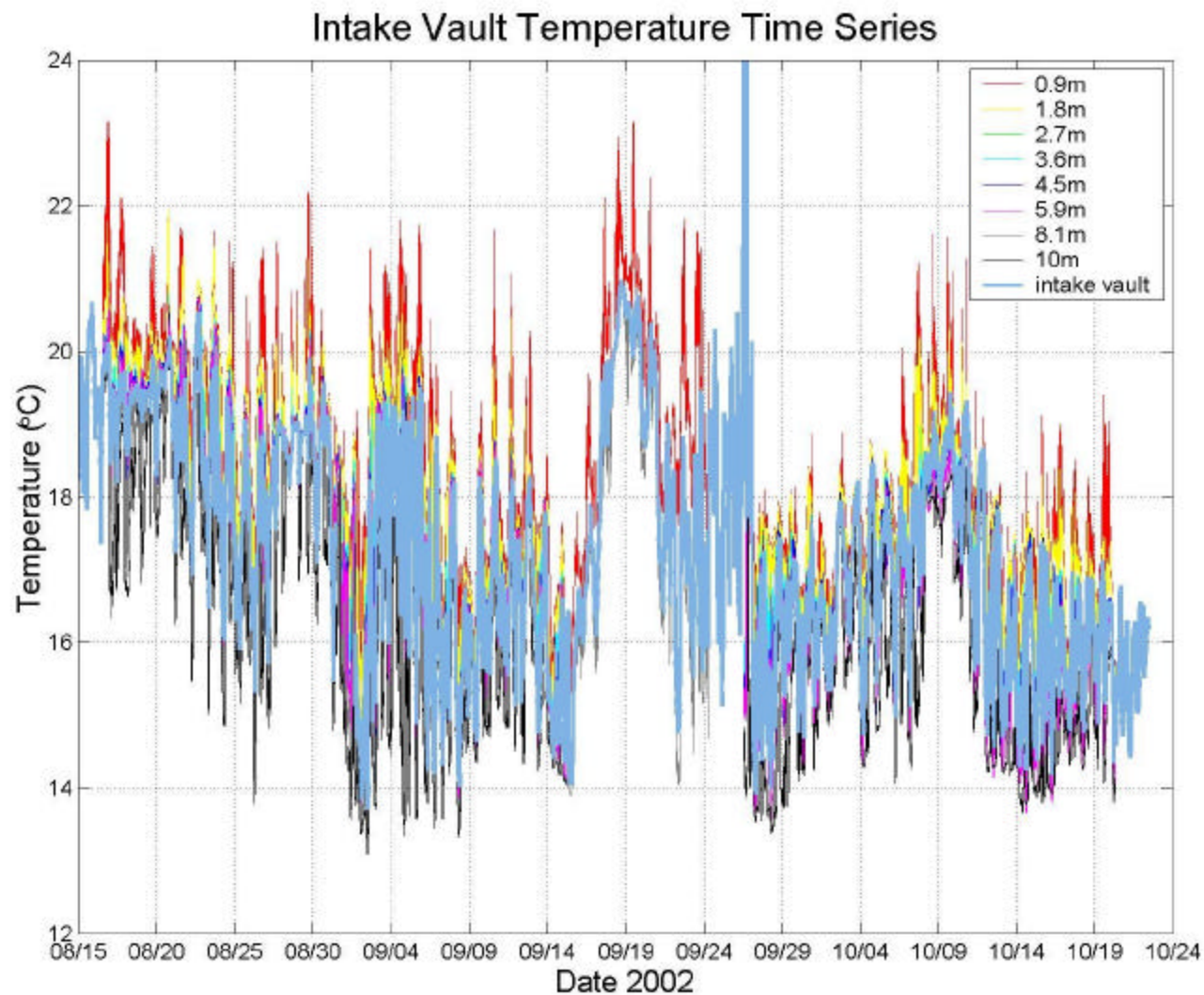
Figure No.:

4-33



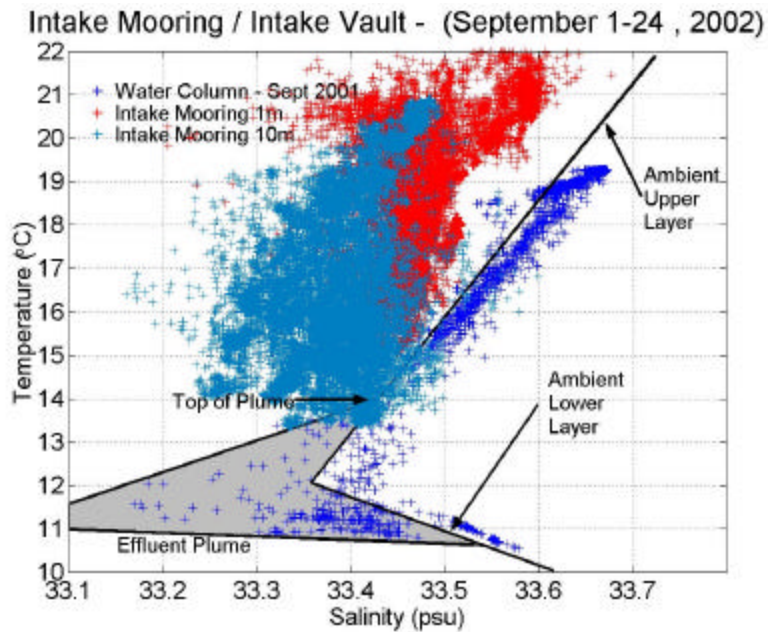
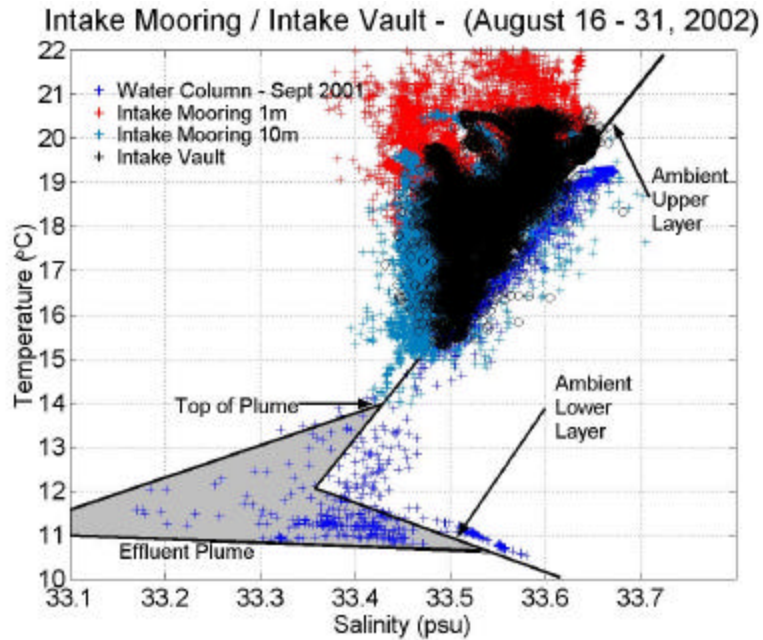
PREPARED SOLELY FOR THE USE OF OUR CLIENT AND NO REPRESENTATION OF ANY KIND IS MADE TO OTHER PARTIES WITH WHICH KOMEX HAS ENTERED INTO A CONTRACT.

Client:	California Energy Commission	Date:	April 2003
Project/Site:	HBGS - AES Powerplant	Project No:	225-001
Title:	Predicted and Actual Ammonia Concentrations	Plate No:	5-1



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WHICH KOMEX HAS ENTERED INTO A CONTRACT.

Client:	California Energy Commission	Date:	April 2003
Project/Site:	HBGS - AES Powerplant	Project No:	225-001
Title:	Intake Vault and Intake Mooring Temperature Time Series		5-2

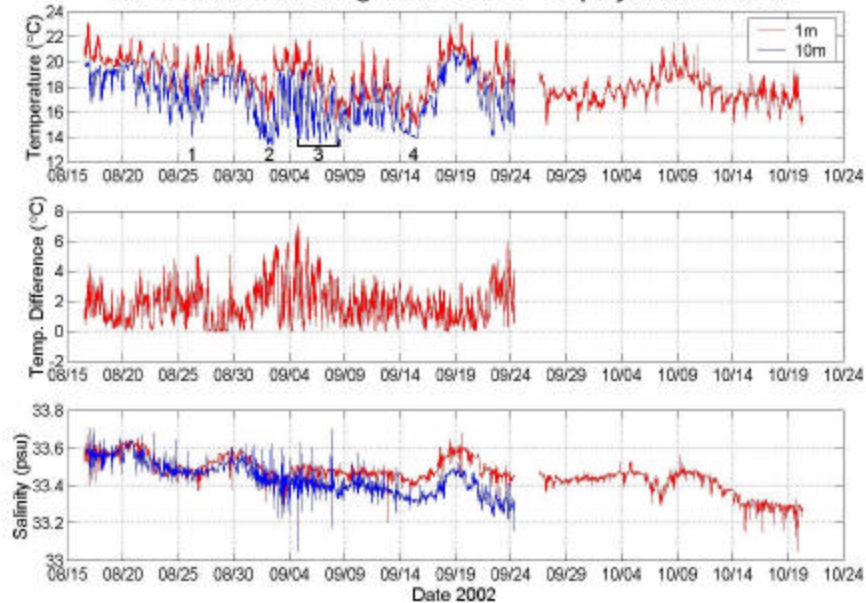


PREPARED SOLELY FOR THE USE OF OUR CLIENT AND NO REPRESENTATION OF ANY KIND IS MADE TO OTHER PARTIES WITH WHICH KOMEX HAS ENTERED INTO A CONTRACT.

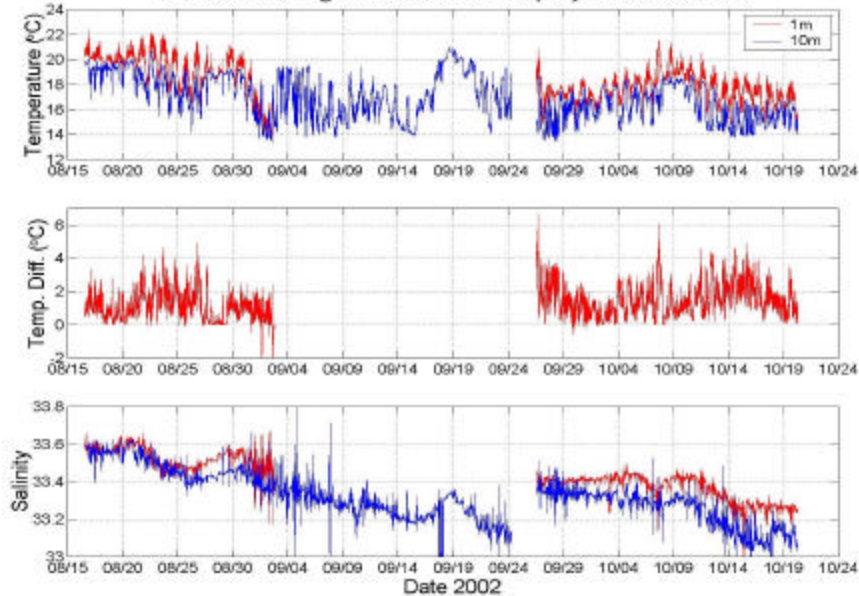
Client:	California Energy Commission
Project/Site:	HBGS - AES Powerplant
Title:	Intake Vault Temperature - Salinity Distribution August and September

Date:	April 2003
Project No:	225-001
Plate No:	

HBGS Intake Mooring Time Series - Deployments 1 and 2



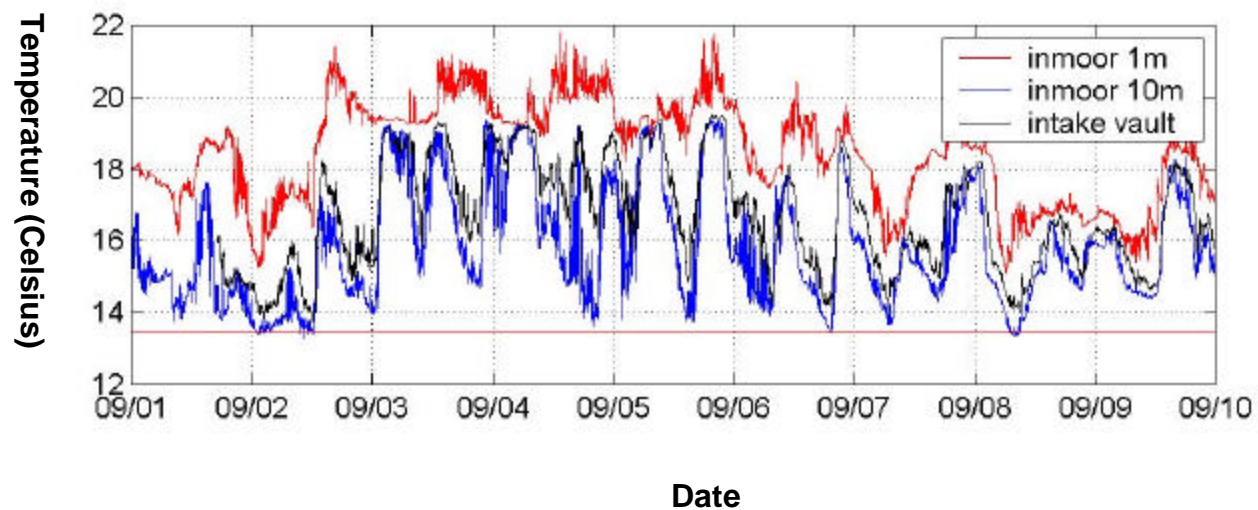
Outfall Mooring Time Series - Deployments 1 and 2



PREPARED SOLELY FOR THE USE OF OUR CLIENT AND NO REPRESENTATION OF ANY KIND IS MADE TO OTHER PARTIES WITH WHICH KOMEX HAS ENTERED INTO A CONTRACT.

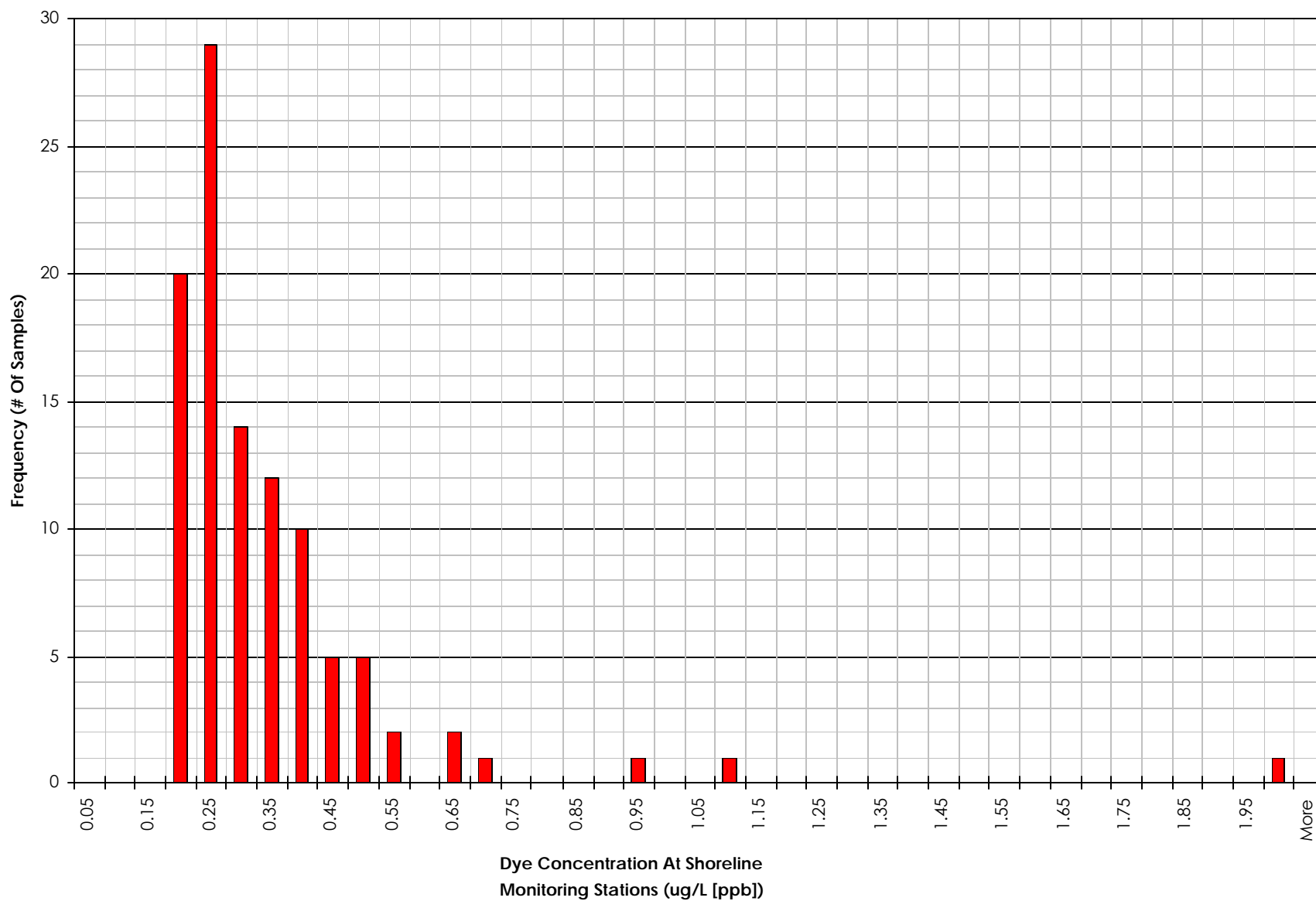
Client:	California Energy Commission	Date:	April 2003
Project/Site:	HBGS - AES Powerplant	Project No:	225-001
Title:	Time Series of Temperature, Temperature Difference and Salinity for Intake and Outfall Moorings		

Plate No:



PREPARED SOLELY FOR THE USE OF OUR CLIENT AND NO REPRESENTATION OF ANY KIND IS MADE TO OTHER PARTIES WITH WHICH KOMEX HAS ENTERED INTO A CONTRACT.

Client:	California Energy Commission	Date:	April 2003
Project/Site:	HBGS - AES Powerplant	Project No:	225-001
Title:	Intake Vault and Intake Mooring-September	Plate No:	5-5



PREPARED SOLELY FOR THE USE OF OUR CLIENT AND NO REPRESENTATION OF ANY KIND IS MADE TO OTHER PARTIES WITH WHICH KOMEX HAS ENTERED INTO A CONTRACT.

Client:

California Energy Commission

Project/Site:

HBGS - AES Powerplant

Title:

Histogram of Dye Concentrations greater than 0.15 ppb

Date:

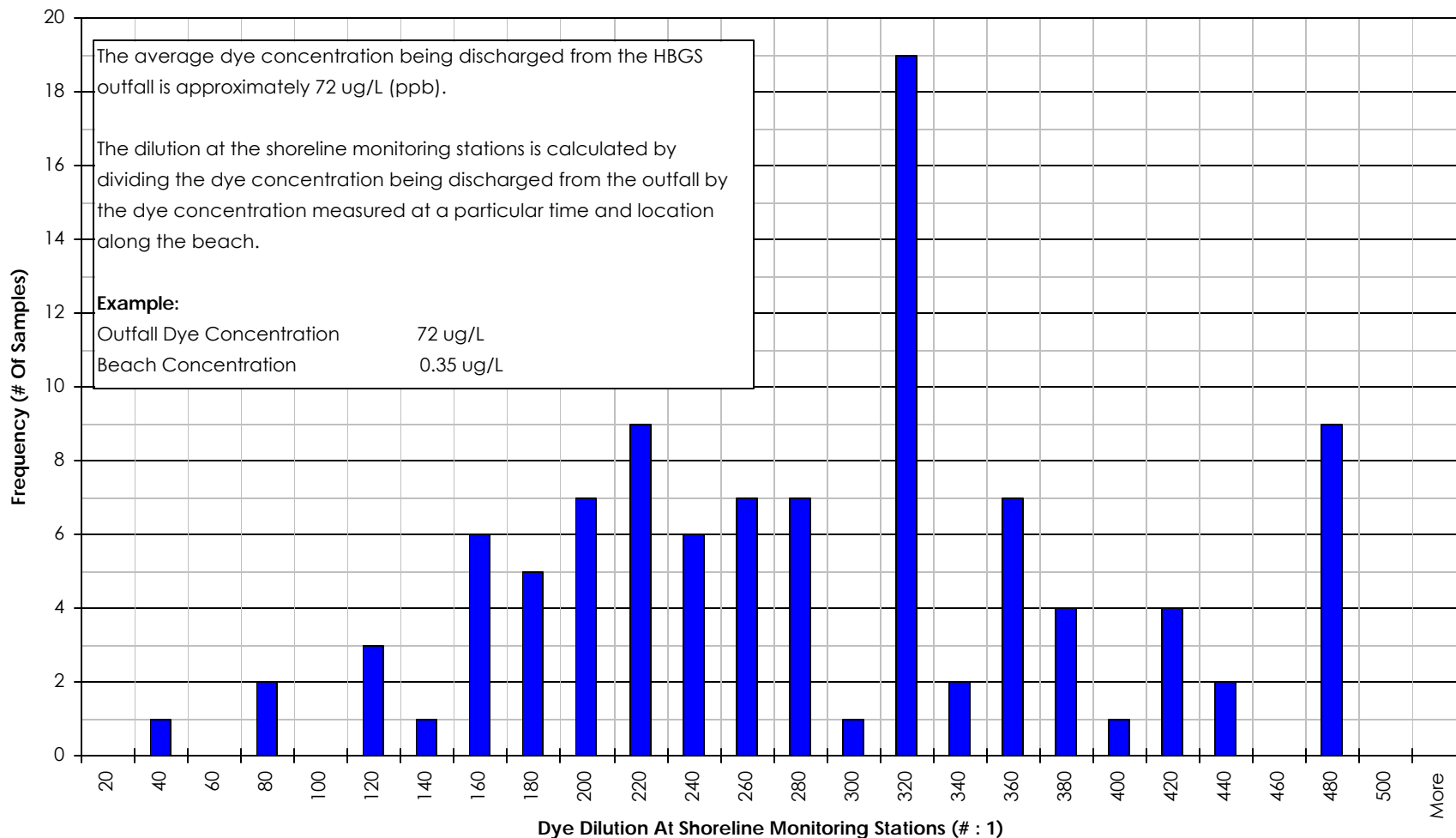
April 2003

Project No:

225-001

Plate No:

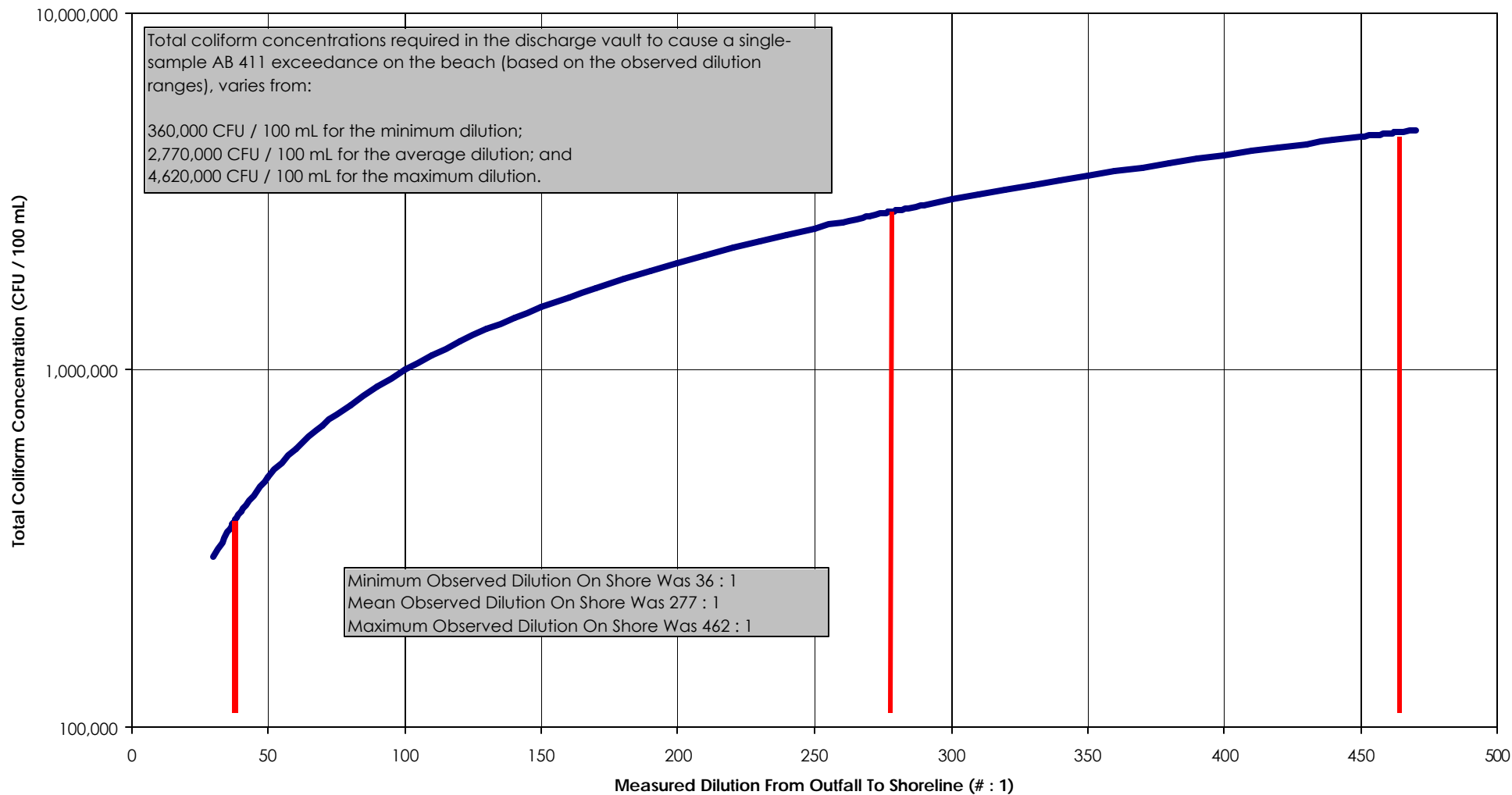
5-6



PREPARED SOLELY FOR THE USE OF OUR CLIENT AND NO REPRESENTATION OF ANY KIND IS MADE TO OTHER PARTIES WITH WHICH KOMEX HAS ENTERED INTO A CONTRACT.

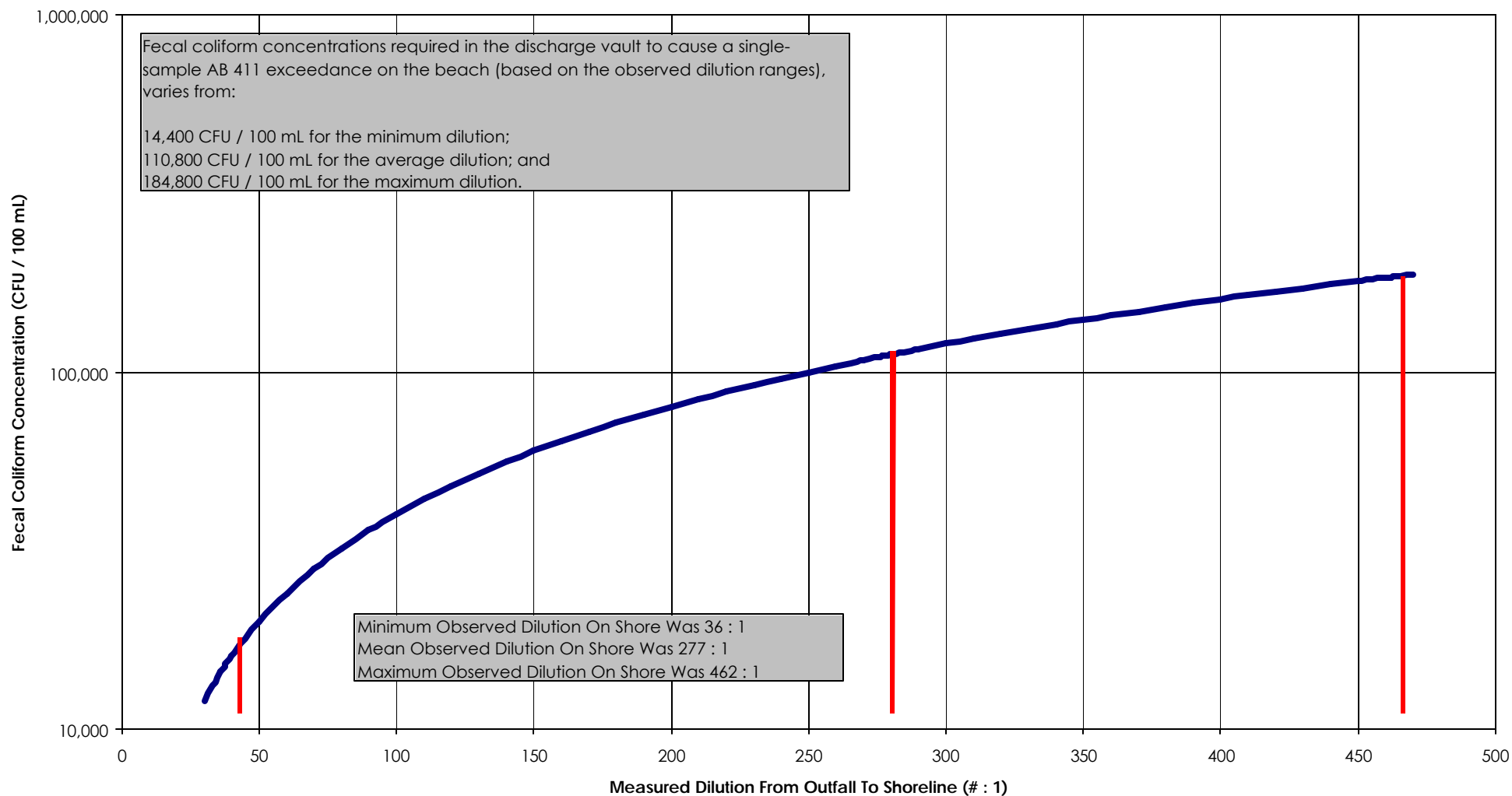
Client:	California Energy Commission
Project/Site:	HBGS - AES Powerplant
Title:	Dye Dilution Histogram

Date:	April 2003
Project No:	225-001
Plate No:	



PREPARED SOLELY FOR THE USE OF OUR CLIENT AND NO REPRESENTATION OF ANY KIND IS MADE TO OTHER PARTIES WITH WHICH KOMEX HAS ENTERED INTO A CONTRACT.

Client:	California Energy Commission	Date:	April 2003
Project/Site:	HBGS - AES Powerplant	Project No:	225-001
Title:	Total Coliform Discharge Exceedance Modeling	Plate No:	5-8



PREPARED SOLELY FOR THE USE OF OUR CLIENT AND NO REPRESENTATION OF ANY KIND IS MADE TO OTHER PARTIES WITH WHICH KOMEX HAS ENTERED INTO A CONTRACT.

Client:

California Energy Commission

Project/Site:

HBGS - AES Powerplant

Title:

Fecal Coliform Discharge Exceedance Modeling

Date:

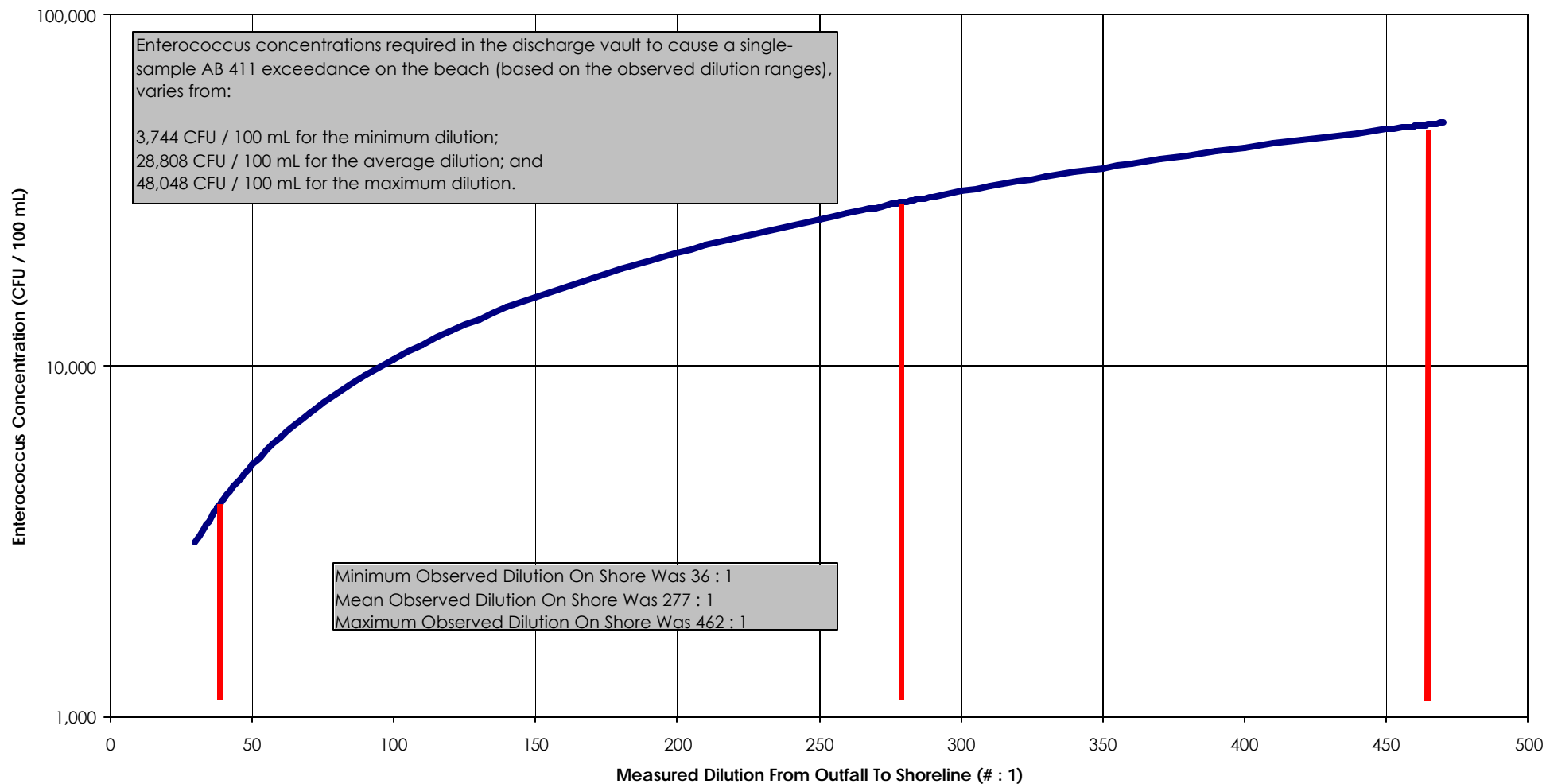
April 2003

Project No:

225-001

Plate No:

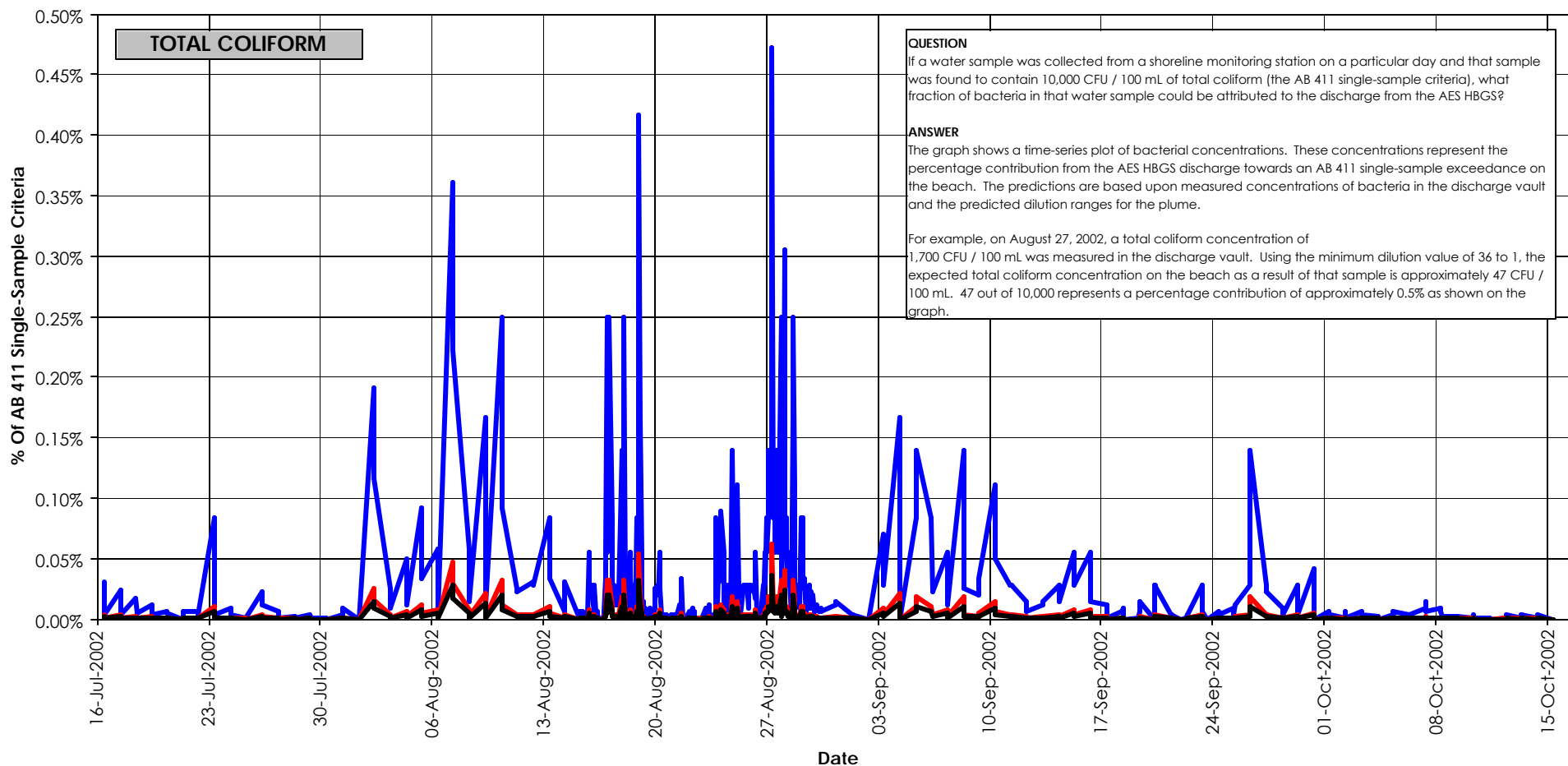
5-9



PREPARED SOLELY FOR THE USE OF OUR CLIENT AND NO REPRESENTATION OF ANY KIND IS MADE TO OTHER PARTIES WITH WHICH KOMEX HAS ENTERED INTO A CONTRACT.

Client:	California Energy Commission	Date:	April 2003
Project/Site:	HBGS - AES Powerplant	Project No:	225-001
Title:	Enterococcus Discharge Exceedance Modeling	Plate No:	5-10

Minimum Dilution 36 To 1 Mean Dilution Of 277 To 1 Maximum Dilution Of 462 To 1



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Client:

California Energy Commission

Project/Site:

HBGS - AES Powerplant

Title:

Total Coliform Percentage Exceedance Modeling

Date:

April 2003

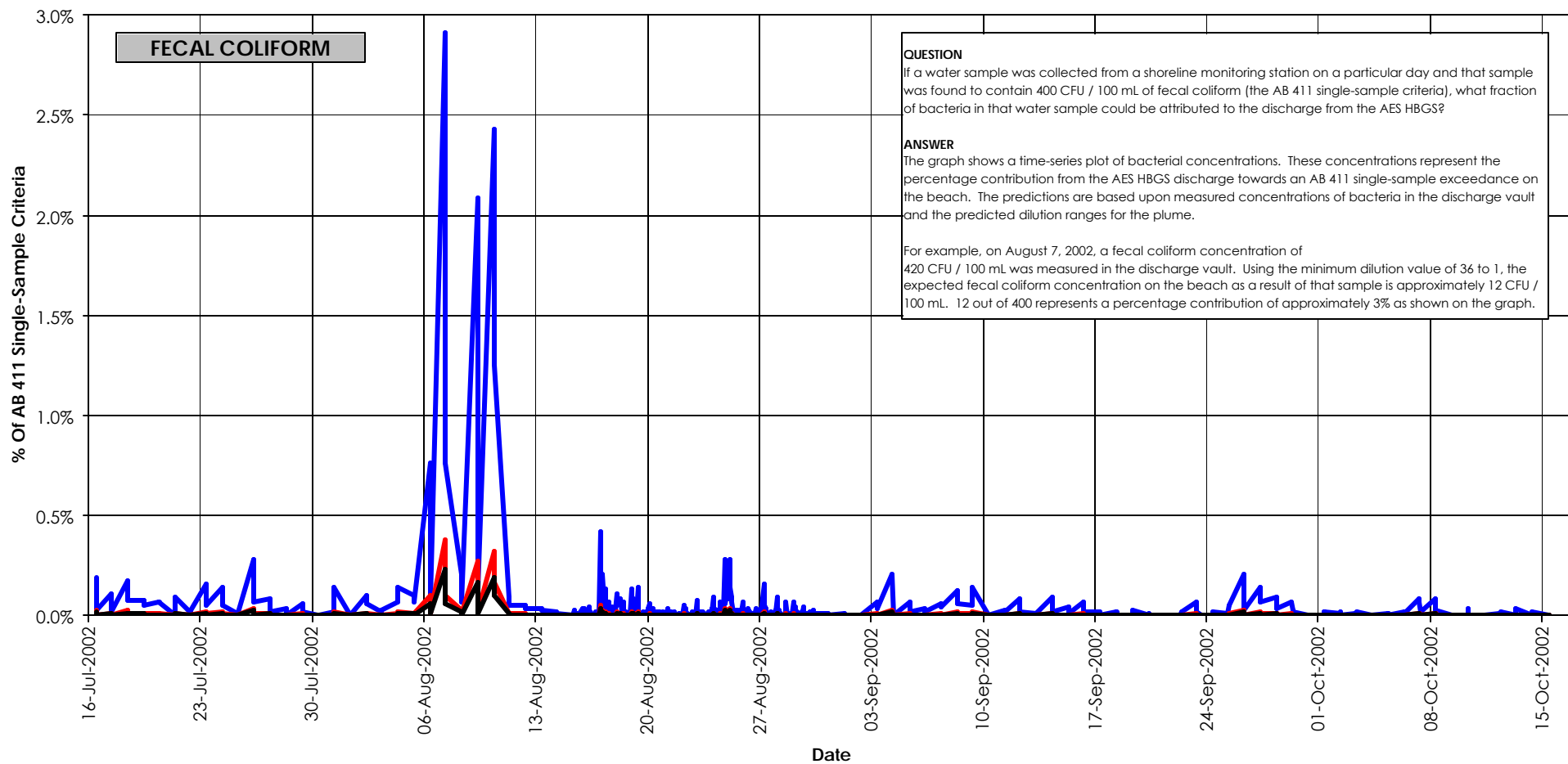
Project No:

225-001

Plate No:

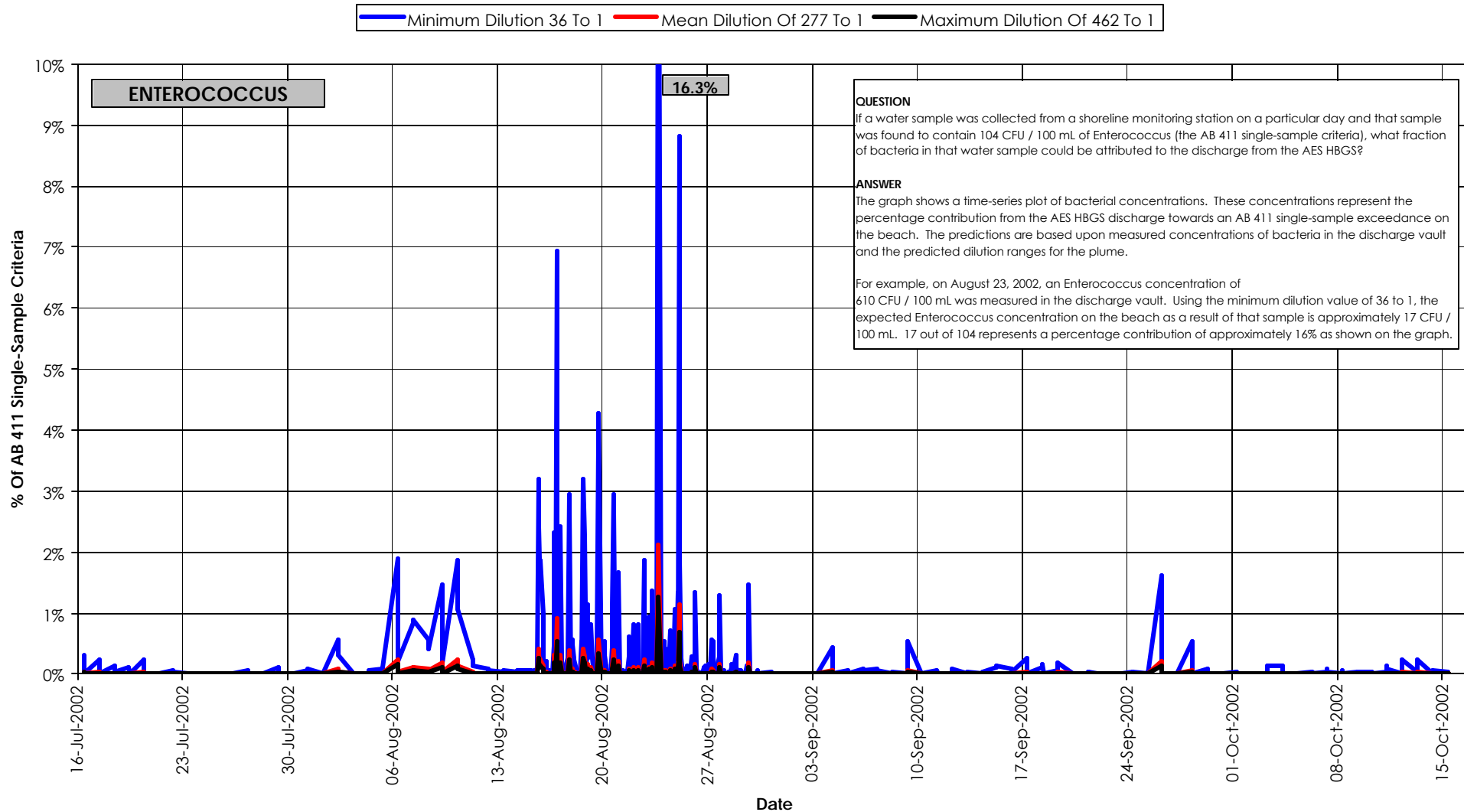
5-11

Minimum Dilution 36 To 1 Mean Dilution Of 277 To 1 Maximum Dilution Of 462 To 1



PREPARED SOLELY FOR THE USE OF OUR CLIENT AND NO REPRESENTATION OF ANY KIND IS MADE TO OTHER PARTIES WITH WHICH KOMEX HAS ENTERED INTO A CONTRACT.

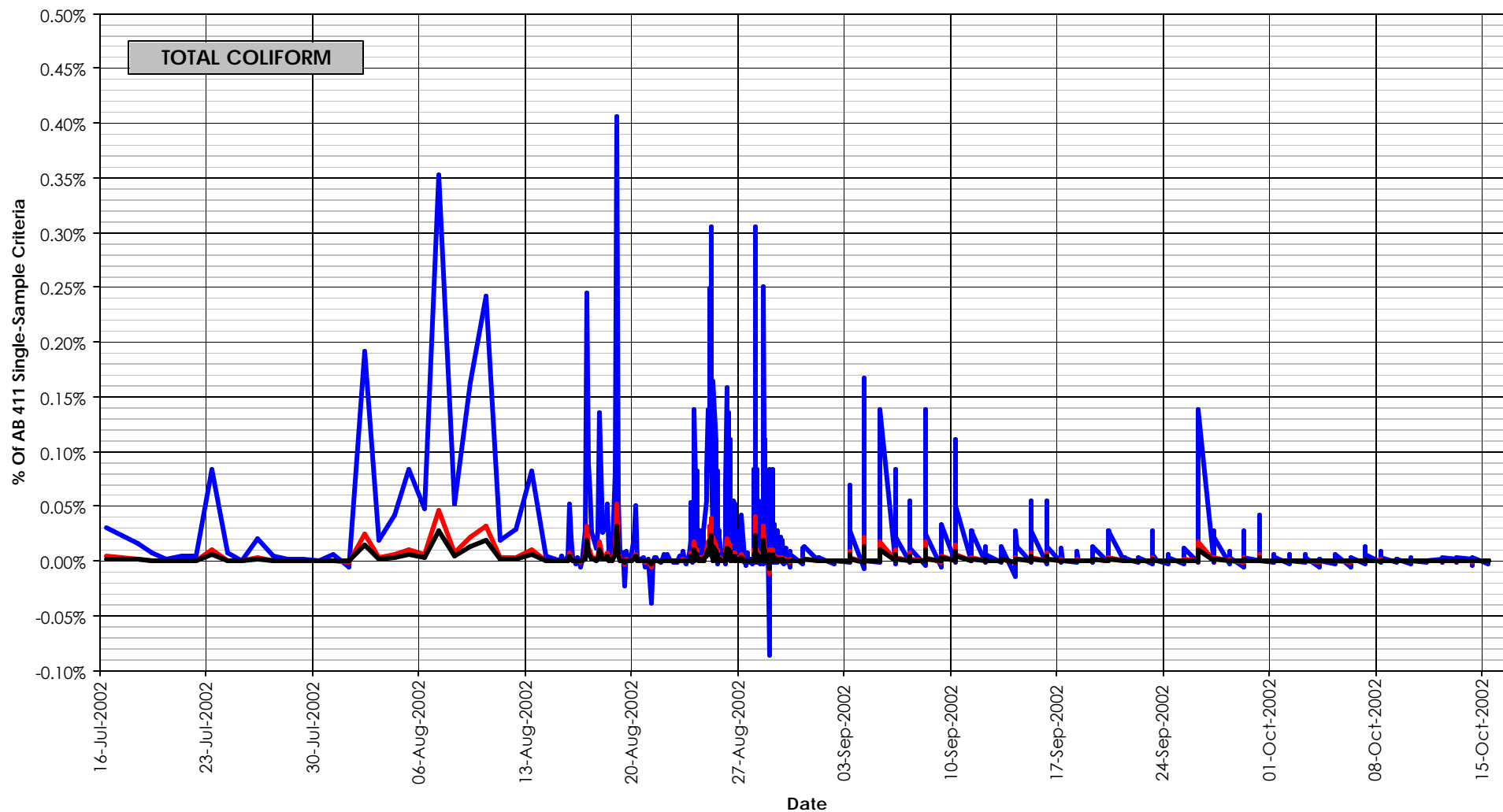
Client:	California Energy Commission	Date:	April 2003
Project/Site:	HBGS - AES Powerplant	Project No:	225-001
Title:	Fecal Coliform Percentage Exceedance Modeling	Plate No:	5-12



PREPARED SOLELY FOR THE USE OF OUR CLIENT AND NO REPRESENTATION OF ANY KIND IS MADE TO OTHER PARTIES WITH WHICH KOMEX HAS ENTERED INTO A CONTRACT.

Client:	California Energy Commission	Date:	April 2003
Project/Site:	HBGS - AES Powerplant	Project No:	225-001
Title:	Enterococcus Percentage Exceedance Modeling	Plate No:	5-13

Minimum Dilution 36 To 1 Mean Dilution Of 277 To 1 Maximum Dilution Of 462 To 1



PREPARED SOLELY FOR THE USE OF OUR CLIENT AND NO REPRESENTATION OF ANY KIND IS MADE TO OTHER PARTIES WITH WHICH KOMEX HAS ENTERED INTO A CONTRACT.

Client:

California Energy Commission

Project/Site:

HBGS - AES Powerplant

Title:

Net Flux of Total Coliform - Predicted Contribution to Beach Exceedance

Date:

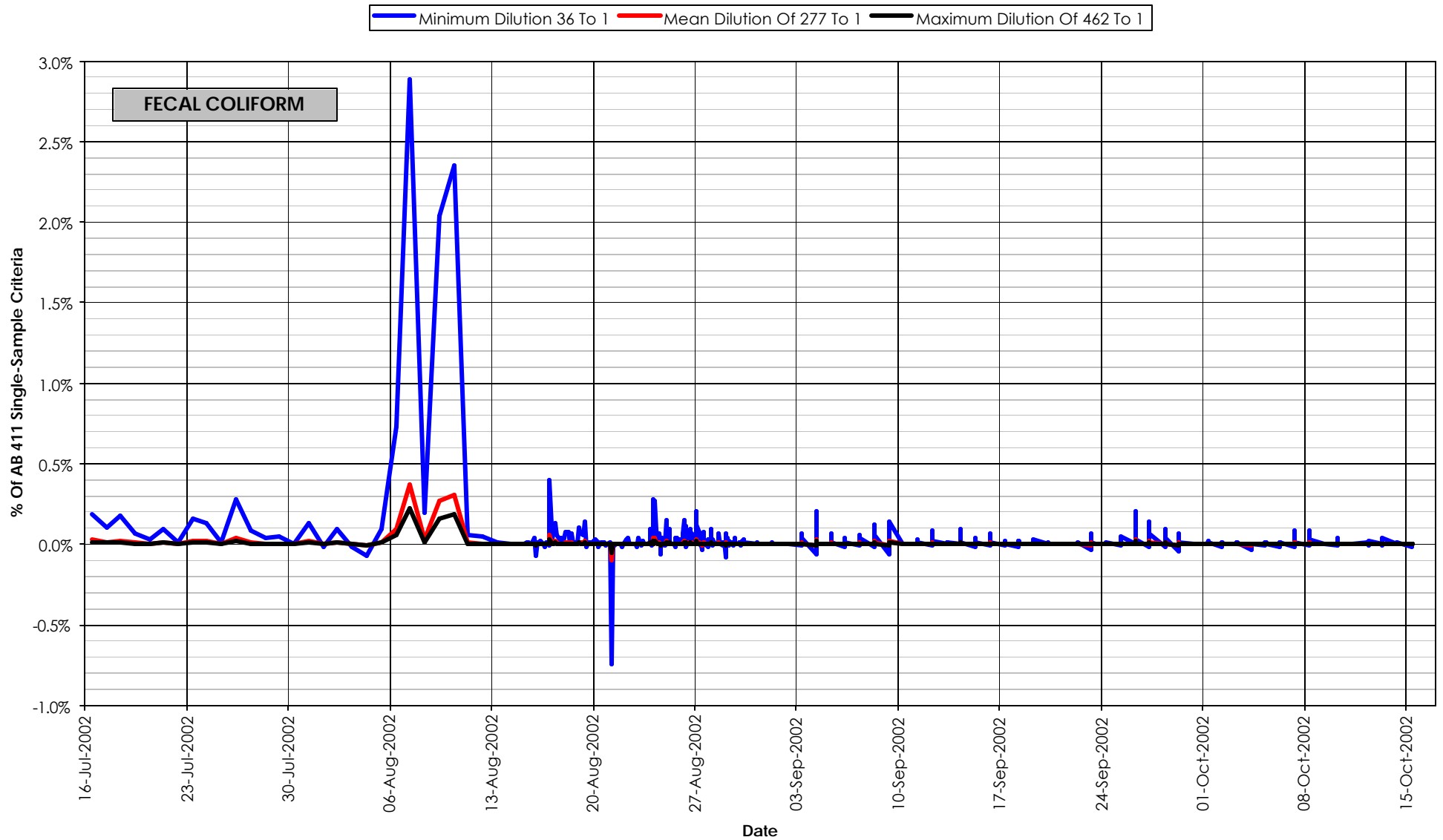
April 2003

Project No:

225-001

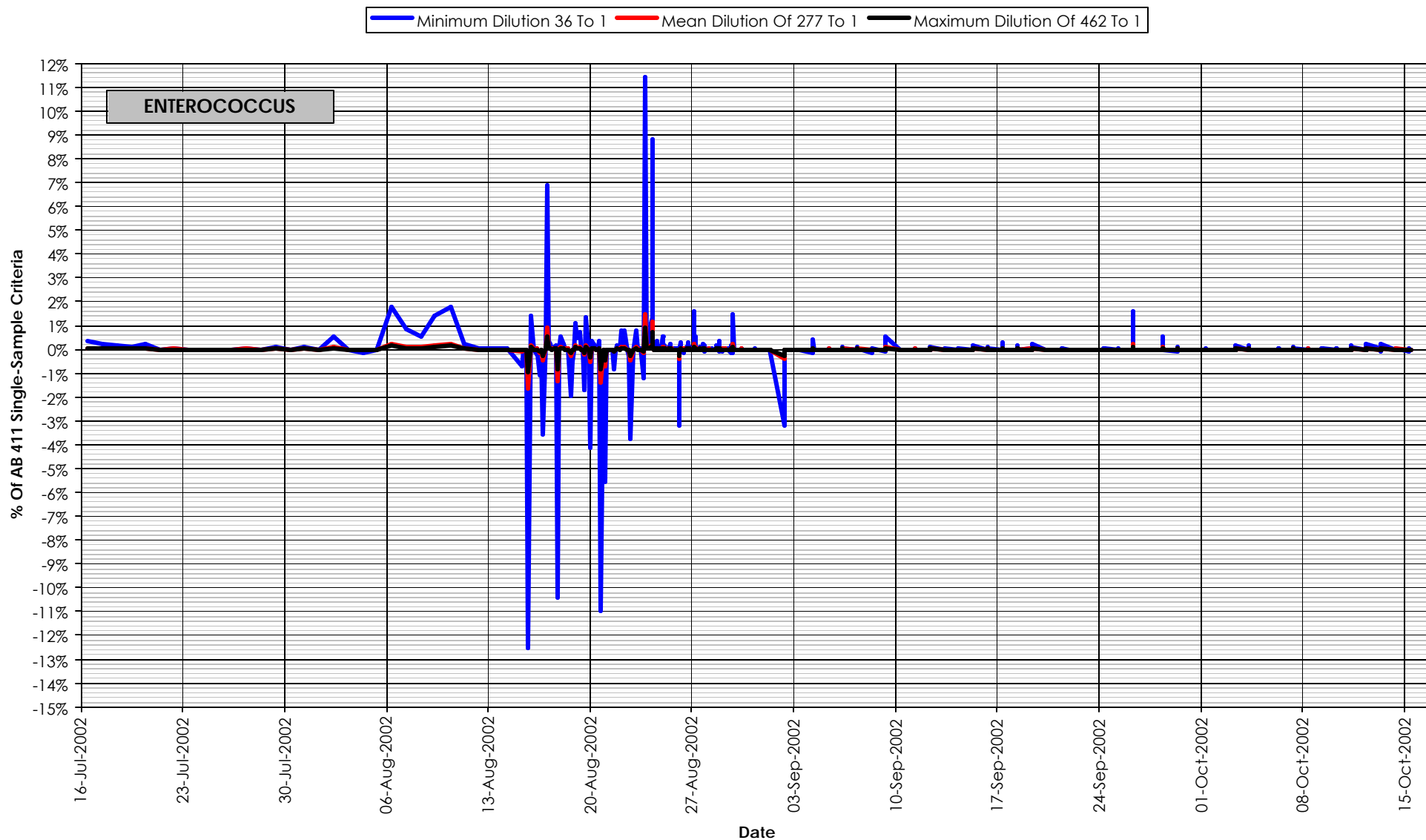
Plate No:

5-14



PREPARED SOLELY FOR THE USE OF OUR CLIENT AND NO
REPRESENTATION OF ANY KIND IS MADE TO OTHER PARTIES WITH
WHICH KOMEX HAS ENTERED INTO A CONTRACT.

Client:	California Energy Commission	Date:	April 2003
Project/Site:	HBGS - AES Powerplant	Project No:	225-001
Title:	Net Flux of Fecal Coliform - Predicted Contribution to Beach Exceedance		Plate No:
			5-15



PREPARED SOLELY FOR THE USE OF OUR CLIENT AND NO REPRESENTATION OF ANY KIND IS MADE TO OTHER PARTIES WITH WHICH KOMET HAS ENTERED INTO A CONTRACT.

Client:

California Energy Commission

Project/Site:

HBGS - AES Powerplant

Title:

Net Flux of Enterococcus - Predicted Contribution to Beach Exceedance

Date:

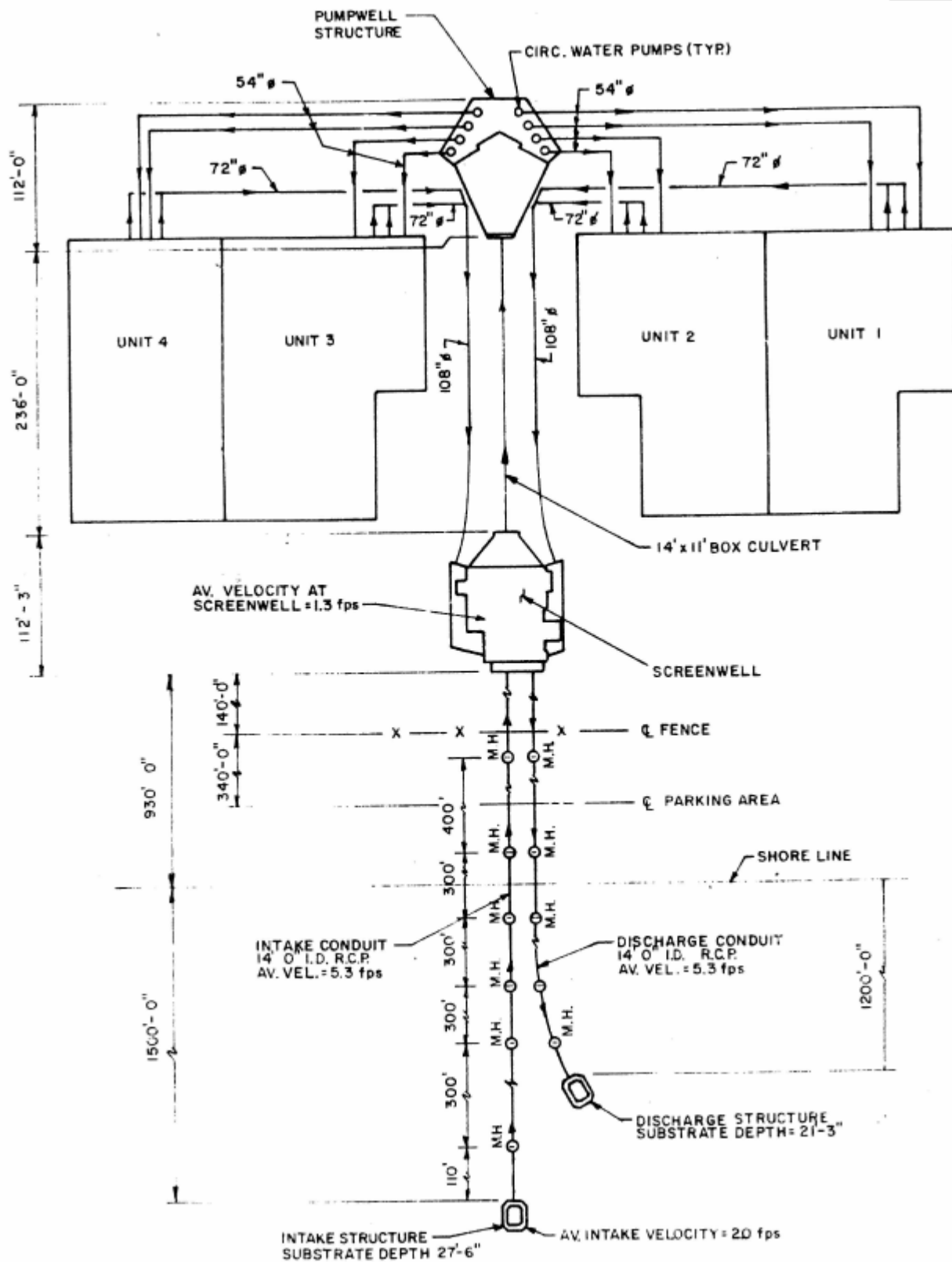
April 2003

Project No:

225-001

Plate No:

5-16



PREPARED SOLELY FOR THE USE OF OUR CLIENT AND NO
REPRESENTATION OF ANY KIND IS MADE TO OTHER PARTIES WITH
WHICH KOMEX HAS NOT ENTERED INTO A CONTRACT.

Client:

California Energy Commission

Date:

April 2003

Project/Site:

HBGS - AES Powerplant

Project No:

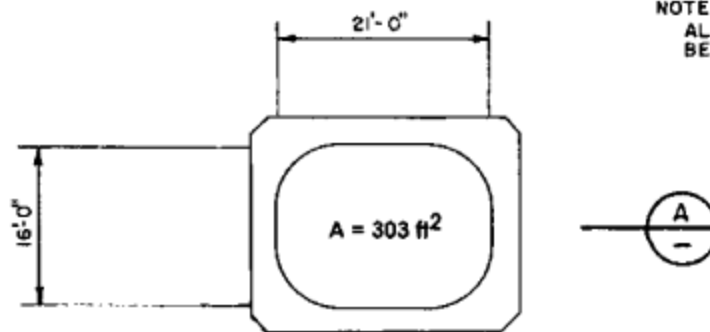
225-001

Title:

AES HBGS Facilities Schematic

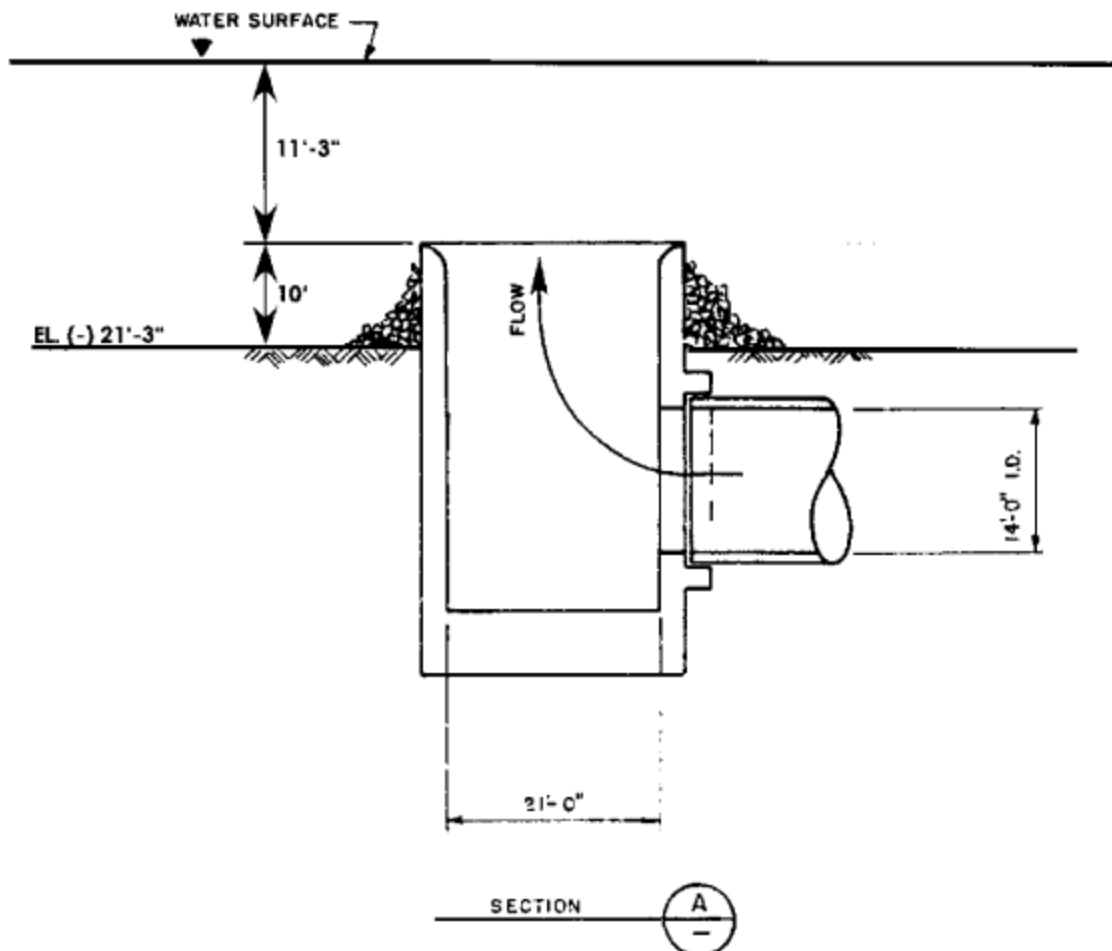
Figure No:

A-1



NOTE 1
ALL ELEVATIONS ARE
BELOW MLLW

PLAN



SECTION



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REPRESENTATION OF ANY KIND IS MADE TO OTHER PARTIES WITH
WHICH KOMEX HAS NOT ENTERED INTO A CONTRACT.

Client: California Energy Commission

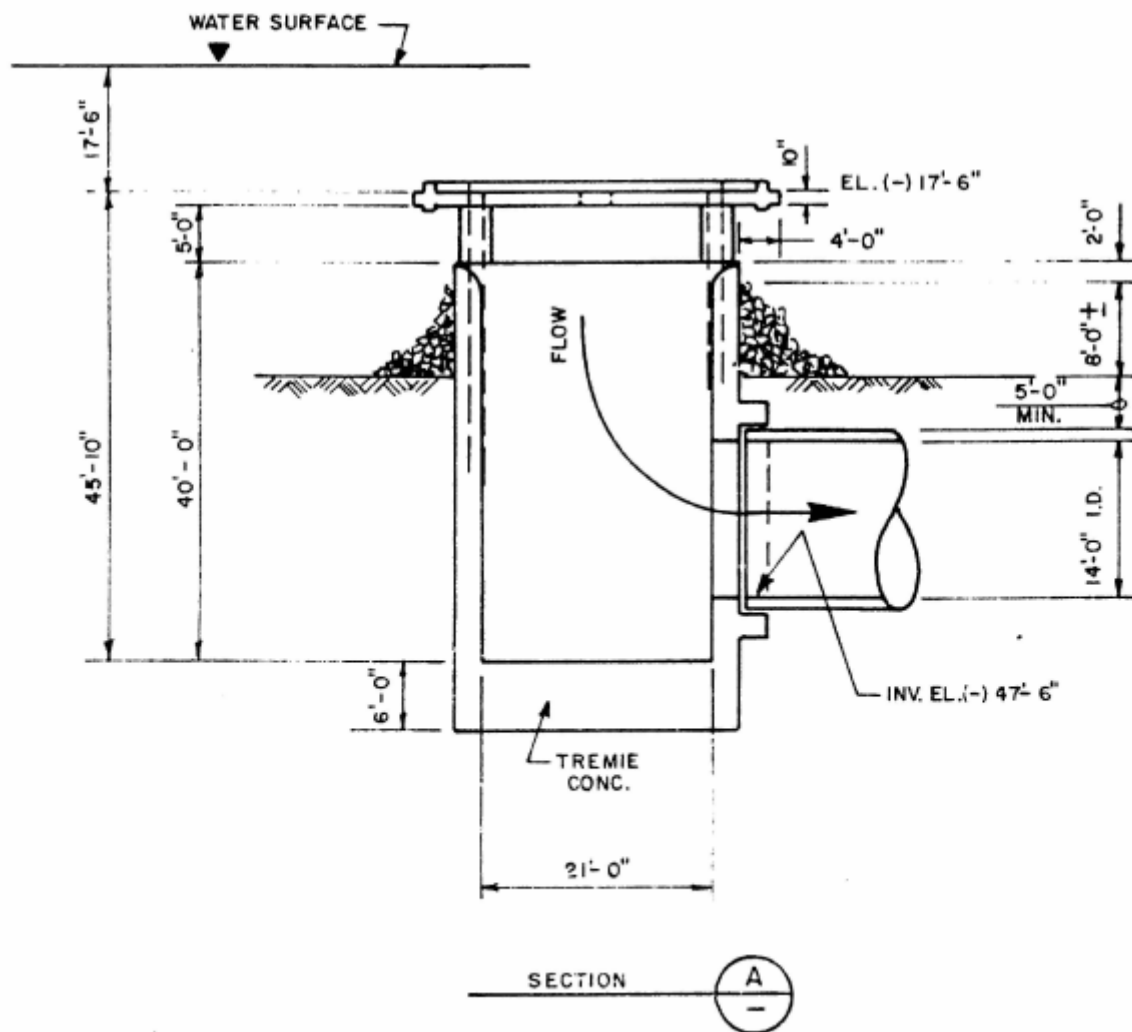
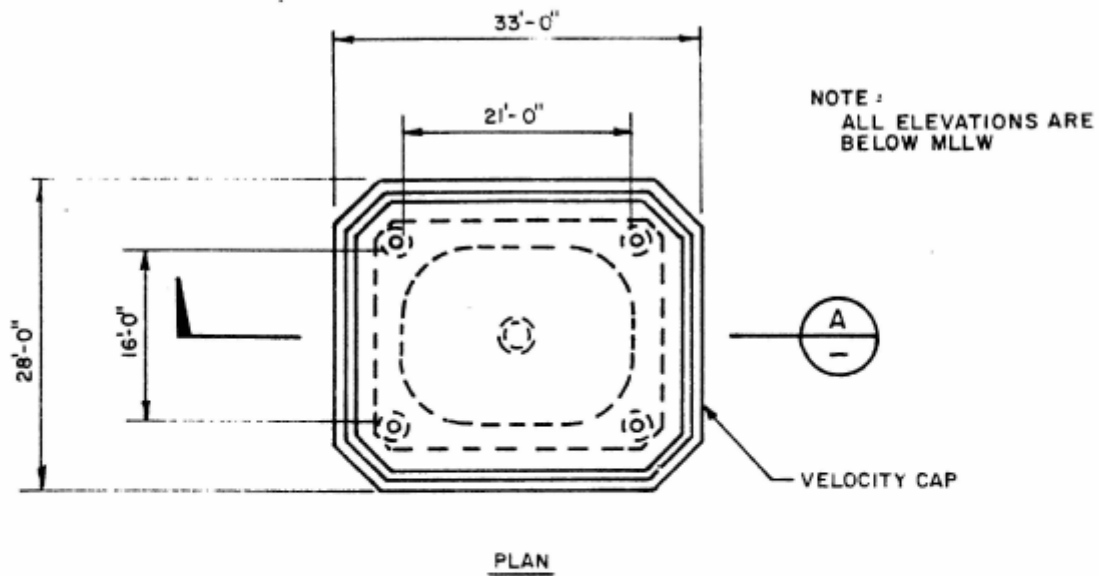
Project/Site: HBGS - AES Powerplant

Title: AES Outfall Terminus Detail

Date: April 2003

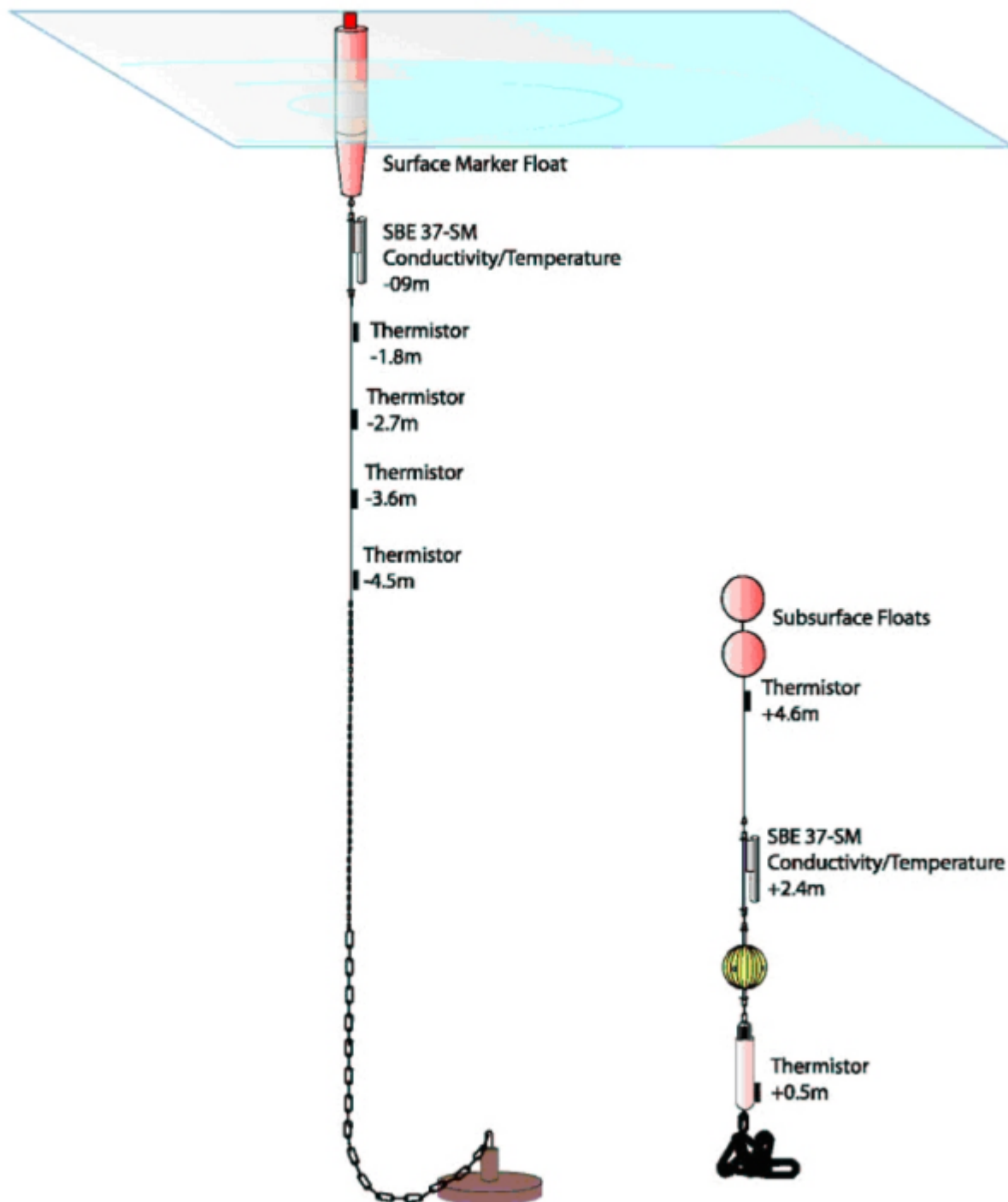
Project No: 225-001

Figure No: A-2



PREPARED SOLELY FOR THE USE OF OUR CLIENT AND NO REPRESENTATION OF ANY KIND IS MADE TO OTHER PARTIES WITH WHICH KOMEX HAS NOT ENTERED INTO A CONTRACT.

Client:	California Energy Commission	Date:	April 2003
Project/Site:	HBGS - AES Powerplant	Project No:	225-001
Title:	AES Intake Detail	Figure No:	A-3



PREPARED SOLELY FOR THE USE OF OUR CLIENT AND NO
REPRESENTATION OF ANY KIND IS MADE TO OTHER PARTIES WITH
WHICH KOMEX HAS NOT ENTERED INTO A CONTRACT.

Client:

California Energy Commission

Date:

April 2003

Project/Site:

HBGS - AES Powerplant

Project No:

225-001

Title:

Mooring Array Figure

Figure No:

A-4